

AD-A113 150 FUSRO NATIONAL INC. LONG BEACH CA F/0 16/1
MX SITING INVESTIGATION. REGIONAL STUDIES FOR VALLEY CLUSTERING-ETC(U)
AUG 81 F04704-80-C-0006
UNCLASSIFIED FN-81-AUG-1 NL

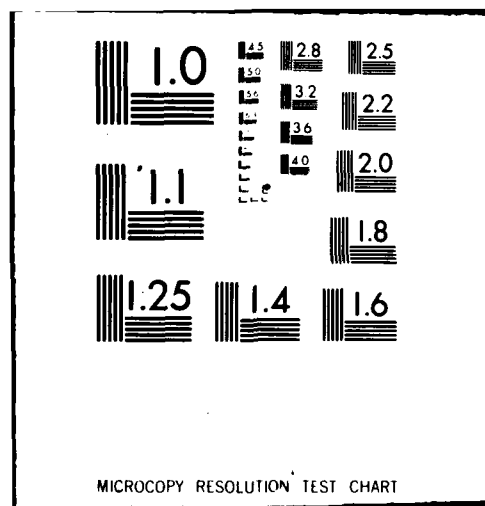
FURRO NATIONAL INC. LONG BEACH CA F/O 16/1
 NX SITING INVESTIGATION. REGIONAL STUDIES FOR VALLEY CLUSTERING--ETC(U)
 AUG 81 F04704-80-C-0006
 FN-81-AUG-1 NL

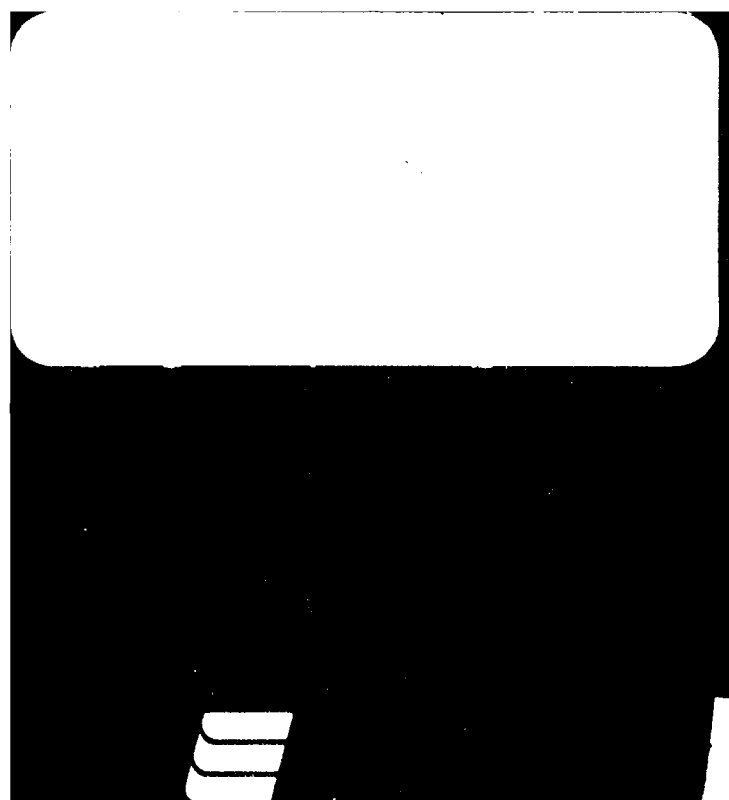
UNCLASSIFIED FN-81-AUG-1

NE

1 of 3
 2025/11/20 $\Delta \Sigma$

1





PHOTOGRAPH THIS SHEET

ADDA113 15-0

DTIC ACCESSION NUMBER

II

LEVEL

I

INVENTORY

FN-81-AUG-I
DOCUMENT IDENTIFICATION

This document has been approved
for public release; its
distribution is unlimited.

DISTRIBUTION STATEMENT

ACCESSION FOR	
NTIS	GRA&I <input checked="" type="checkbox"/>
DTIC	TAB <input type="checkbox"/>
UNANNOUNCED	<input type="checkbox"/>
JUSTIFICATION	
BY	
DISTRIBUTION /	
AVAILABILITY CODES	
DIST	AVAIL AND/OR SPECIAL
A	

DISTRIBUTION STAMP

DTIC
APR 07 1982
E

DATE ACCESSIONED

DTIC
COPY
INSPECTED
2

019

DATE RECEIVED IN DTIC

PHOTOGRAPH THIS SHEET AND RETURN TO DTIC-DDA-2

FN-81-AUG-I

REGIONAL STUDIES
FOR
VALLEY CLUSTERING

21 August 1981

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER: FN-81-Aug-I	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Regional Studies For Valley Clustering		5. TYPE OF REPORT & PERIOD COVERED FINAL
7. AUTHOR(s) ERTEC Western, Inc.		6. PERFORMING ORG. REPORT NUMBER FN-81-Aug-I
		8. CONTRACT OR GRANT NUMBER(s) FO4704-80-C-0006
9. PERFORMING ORGANIZATION NAME AND ADDRESS Ertec Western Inc. (Formerly Fugro National) P.O. Box 7765 Long Beach Ca 90807		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 64312 F
11. CONTROLLING OFFICE NAME AND ADDRESS U.S. Department of the Air Force Space and Missile Systems Organization Norton AFB Ca 92409 (SAMSO)		12. REPORT DATE 21 Aug 81
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		13. NUMBER OF PAGES 248
		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Distribution Unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Distribution Unlimited		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) shelter, overflight, Restricted Areas, Valley Clusters, Rock, Water, Shelter Options		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Results of the regional studies for valley clustering scenario of MX horizontal shelters in Nevada and Utah shows the various shelter options. The various shelter options include the 4600 shelter arrangement, 2300 shelter arrangement, and 1150 shelter arrangement for various scenarios of valleys, depth to rock, and depth to water.		

FOREWORD

This summary sketch book of valley clustering scenarios in Nevada/Utah was produced at the direction of the AFRCE-MX pursuant to Change Order P00027, Contract No. F04704-80-C-0006.

TABLE OF CONTENTS

	<u>Page</u>
FOREWORD	i
1.0 <u>INTRODUCTION</u>	1
1.1 TRW Memo: Regional Studies for Valley Clustering	6
2.0 <u>4600 SHELTER OPTIONS</u>	10
3.0 <u>2300 SHELTER OPTIONS</u>	83
4.0 <u>1150 SHELTER OPTIONS</u>	174

LIST OF APPENDICES

Appendix Number

A	Glossary	A-1
B	Military Overflight Areas (MOAs) and Restricted Areas	A-2

LIST OF TABLES

Table Number

1	Available Shelters	2
2	Data Matrix	3,4,5

LIST OF FIGURES

Figure Number

1	Military Overflight Areas (MOAs) and Restricted Areas	7
---	--	---

1.0 INTRODUCTION

1.0 INTRODUCTION

This document contains three sections. Each pertains to a requested total of shelters as given in the table below:

<u>Section</u>	<u>Shelters</u>
I	4600
II	2300
III	1150

One Area Support Center (ASC) supports shelters within a 65 statute mile radius.

The sketches and tables presented herein identify specific ASC locations by dots and valleys, or portions thereof, by shading. These locations contain sufficient shelters to add up to the requested total (see table above) within 65-mile circles. Initials identify the valley names and, in most cases, are located immediately to the left of the valley sketch.

The table facing each sketch identifies the valley by name and gives the number of shelters considered in the option. The number of shelters after each valley represents (unless specified as 23:1 clustering) the theoretical counts based on valley clustering. All numbers were generated by TRW except in the case of 23:1 clustering.

The total number of shelters available for each of the 36 valleys is shown in Table 1.

Table 2, Data Matrix, identifies the deployment option, the number of shelters, the number of valleys, and ASCs and in 13

TABLE 1
AVAILABLE SHELTER

	VALLEY CLUSTERING		23:1 CLUSTERING		
	50' TO ROCK AND WATER OPTION A	OPTION B	150' TO ROCK AND WATER OPTION C	OPTION D	2/3 HEX OPTION E
<u>UTAH</u>					
Dugway	132	198	114	171	115
Fish Springs Flat	99	148	50	75	46
Pine	249	374	242	363	115
Sevier Desert	142	213	62	93	46
Sevier Lake	70	105	57	86	23
Snake	650	975	390	585	437
Tule	367	550	198	297	230
wan Wah	213	320	175	263	115
Whirlwind	291	436	215	322	276
Utah Subtotal	2,213	3,319	1,503	2,255	1,403
<u>NEVADA</u>					
Antelope	125	188	51	76	92
Big Sand Springs	70	105	57	86	69
Big Smoky	430	645	189	284	230
Butte	293	440	264	396	207
Cave	79	118	70	105	69
Coal	219	328	201	302	138
Delamar/Pahroc	170	255	138	207	138
Dry Lake	284	426	267	400	230
Garden	161	242	126	189	138
Hamlin	333	500	186	279	230
Hot Creek	167	250	99	148	138
Jakes	89	134	83	124	69
Kobeh	150	225	8	12	115
Lake	191	286	94	141	161
Little Smoky	195	292	137	206	92
Long	125	188	80	120	92
Monitor	276	414	83	124	138
Muleshoe	81	122	69	104	69
Newark	177	266	96	144	115
Penoyer	212	318	146	219	115
Railroad	455	682	273	410	299
Ralston	312	468	256	384	207
Reveille	91	136	74	111	69
Spring	121	182	68	102	92
Stone Cabin	331	496	159	238	184
White River	398	597	191	286	276
Nevada Subtotal	5,535	8,303	3,465	5,197	3,772
TOTAL	7,748	11,622	4,968	7,452	5,175

TABLE 2
DATA MATRIX

PAGE 1 OF 3

OPTION	NUMBER OF SHELTERS	NUMBER OF VALLEYS	NUMBER OF ASCs	DTN LENGTH (Statute miles)
A1	5332	21	3	540
B1	5370	16	2	373
C1	4968	35	4	927
D1	5481	23	3	538
A2	5324	24	3	
B2	5324	15	2	
C2	4968	35	4	
D2	5332	24	3	
A3	4885	21	3	
B3	5303	20	2	
C3	2976	27	3	
D3	4464	27	3	
A4	4885	27	3	
B4	5303	20	2	
C4	2976	27	3	
D4	4464	27	3	
A5	5365	22	3	
B5	5549	15	2	
C5	4830	34	4	
D5	5306	22	3	
A6	5333	24	3	
B6	5351	16	2	
C6	4830	34	4	
D6	5327	23	3	
A13-1	5321	25	3	
B13-1	5392	17	2	
C13-1	3395	26	3	
D13-1	5092	26	3	
A13-3	4601	25	3	
B13-3	5368	20	2	
C13-3	2747	25	3	
D13-3	4120	25	3	
A13-5	5240	25	3	
B13-5	5336	16	2	
C13-5	3257	25	3	
B13-5	4885	25	3	
A7	2690	14	2	277
B7	2661	9	2	198
C7	2633	19	3	350
D7	2650	13	2	252
E7	2346	18	2	546
A8	2833	11	2	
B8	2719	5	1	
C8	2646	17	2	

TABLE 2
DATA MATRIX

PAGE 2 OF 3

OPTION	NUMBER OF SHELTERS	NUMBER OF VALLEYS	NUMBER OF ASCs	DTN LENGTH (Statute miles)
D8	2639	10	2	
E8	2300	14	2	
A9	2644	17	2	
B9	2635	13	2	
C9	2678	21	3	
D9	2650	16	2	
E9	2323	18	2	
A10	2640	17	2	
B10	2633	11	1	
C10	2678	21	3	
D10	2892	17	2	
E10	2323	18	2	
A11	2726	14	2	
B11	2734	9	2	
C11	2711	19	3	
D11	2720	12	2	
E11	2300	19	2	
A12	2833	11	2	
B12	2719	5	1	
C12	2654	17	2	
D12	2639	10	2	
E12	2300	14	2	
A13-7	2645	14	2	
B13-7	2669	10	1	
C13-7	2644	20	2	
D13-7	2659	14	1	
E13-7	2346	16	2	
A13-9	2786	16	2	
B13-9	2633	12	1	
C13-9	2656	23	3	
D13-9	2668	16	2	
E13-9	2300	19	2	
A13-11	2683	14	2	
B13-11	2732	10	1	
C13-11	2688	19	3	
D13-11	2667	14	1	
E13-11	2346	16	2	
A14	1392	7	1	167
B14	1529	5	1	138
C14	1346	10	1	216
D14	1392	6	1	150
A15	1339	8	1	
B15	1329	6	1	
C15	1337	8	1	

TABLE 2
DATA MATRIX
PAGE 3 OF 3

OPTION	NUMBER OF SHELTERS	NUMBER OF VALLEYS	NUMBER OF ASCs	DTN LENGTH (Statute miles)
D15	1323	7	1	
A16	1357	9	1	
B16	1339	7	1	
C16	1380	15	1	
D16	1316	9	1	
A17	1324	9	1	
B17	1328	6	1	
C17	1324	14	2	
D17	1429	9	1	
A18	1354	7	1	
B18	1392	5	1	
C18	1354	10	1	
D18	1404	6	1	
A19	1339	8	1	
B19	1329	6	1	
C19	1337	8	1	
D19	1323	7	1	
A20-14	1392	7	1	
B20-14	1529	5	1	
C20-14	1422	11	1	
D20-14	1392	6	1	
A20-16	1398	9	1	
B20-16	1560	7	1	
C20-16	1380	15	1	
D20-16	1334	9	1	
A20-18	1448	8	1	
B20-18	1392	5	1	
C20-18	1332	10	1	
D20-18	1404	6	1	

2

cases, the Designated Transportation Network (DTN) road length in statute miles. Possible reductions in DTN length may result from valley clustering. The data presented in this document were generated from visual estimates of proportional parts of areas related to number of shelters in whole areas at a scale of 1:500,000. Consequently, this limits the accuracy of the counts, and emphasis should be placed on relative values of options rather than on absolute values of any one option. The option is identified at the top of the table by a letter and a number as well as by identification. For instance, Option A-1 corresponds to A = horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water, 1 = best 4600 shelters and 15 percent for Coyote MOB.

Figure 1 shows the Military Overflight Areas (MOAs) and Restricted Areas overlapping or infringing on the Designated Deployment Area (DDA). In some instances, the areas in MOAs and Restricted Areas were excluded from the shelter count.

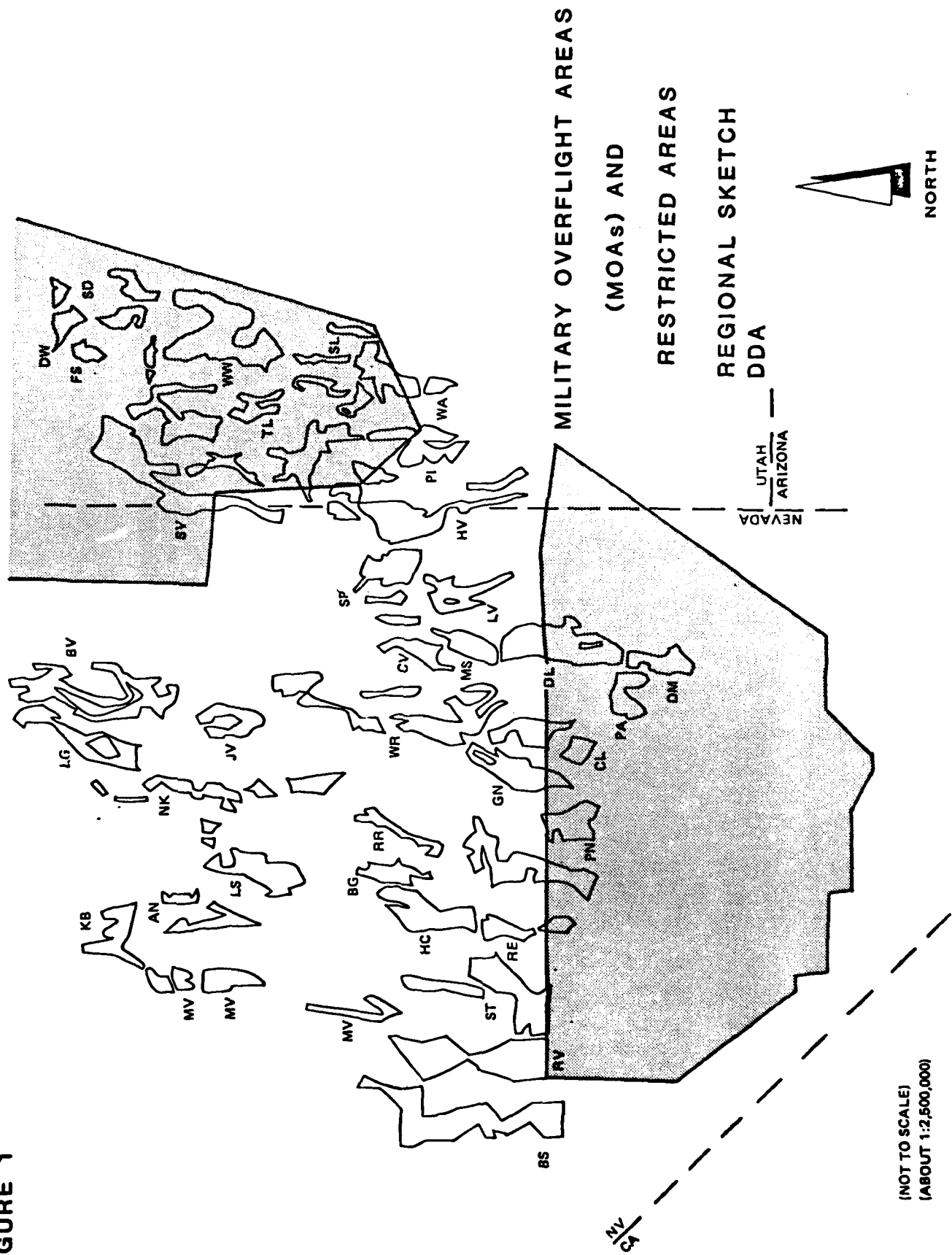
Most of the scope of work was defined in an AFRCE-MX memorandum dated 1 July 1981, submitted to Ertec Western, and subsequently augmented verbally by Major Mike Elliott, AFRCE-MX. This memo follows.

1.1 REGIONAL STUDIES FOR VALLEY CLUSTERING

Items 1 through 13 will be examined under each of the following conditions:

- A. Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water.

FIGURE 1



- B. Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water.
 - C. Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water.
 - D. Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water.
 - E. Horizontal shelters - 23:1 clustered will be examined for case 7 through 12 using Ertec's May 15 numbers.
-

1. Find the most compact system using 4600 shelters and 15 percent - Coyote MOB.
2. Find the most compact system using 4600 shelters and 15 percent - Milford MOB.
3. Repeat #1, but avoid all MOAs and Restricted Areas.
4. Repeat #2, but avoid all MOAs and Restricted Areas.
5. Repeat #1, but avoid the Delamar/Pahroc valleys.
6. Repeat #2, but avoid the Delamar/Pahroc valleys.
7. Best 2300 shelters and 15 percent - Coyote MOB.
8. Best 2300 shelters and 15 percent - Milford MOB.
9. Repeat #7, but avoid all MOAs and Restricted Areas.
10. Repeat #8, but avoid all MOAs and Restricted Areas.
11. Repeat #7, but avoid the Delamar/Pahroc valleys.
12. Repeat #8, but avoid the Delamar/Pahroc valleys.
13. Repeat #'s 1, 3, 5, 7, 9, and 11 for Nevada only.
14. Best 1150 shelters and 15 percent - Coyote MOB.
15. Best 1150 shelters and 15 percent - Milford MOB.
16. Repeat #14, but avoid all MOAs and Restricted Areas.
17. Repeat #15, but avoid all MOAs and Restricted Areas.
18. Repeat #14, but avoid Delamar/Pahroc valleys.

19. Repeat #15, but avoid Delamar/Pahroc valleys.

20. Repeat #s 14, 16, and 18 for Nevada only.

-
- o TRW numbers will be used for A (1-13)
 - B (1-13) = A x 1.5
 - C (1-13)
 - D (1-13)
 - o Ertec cluster numbers will be used for cases E (7-12).
 - o Cases A-D (7, 9, 11) - One ASC will be at Milford.
-

2.0 4600 SHELTER OPTIONS

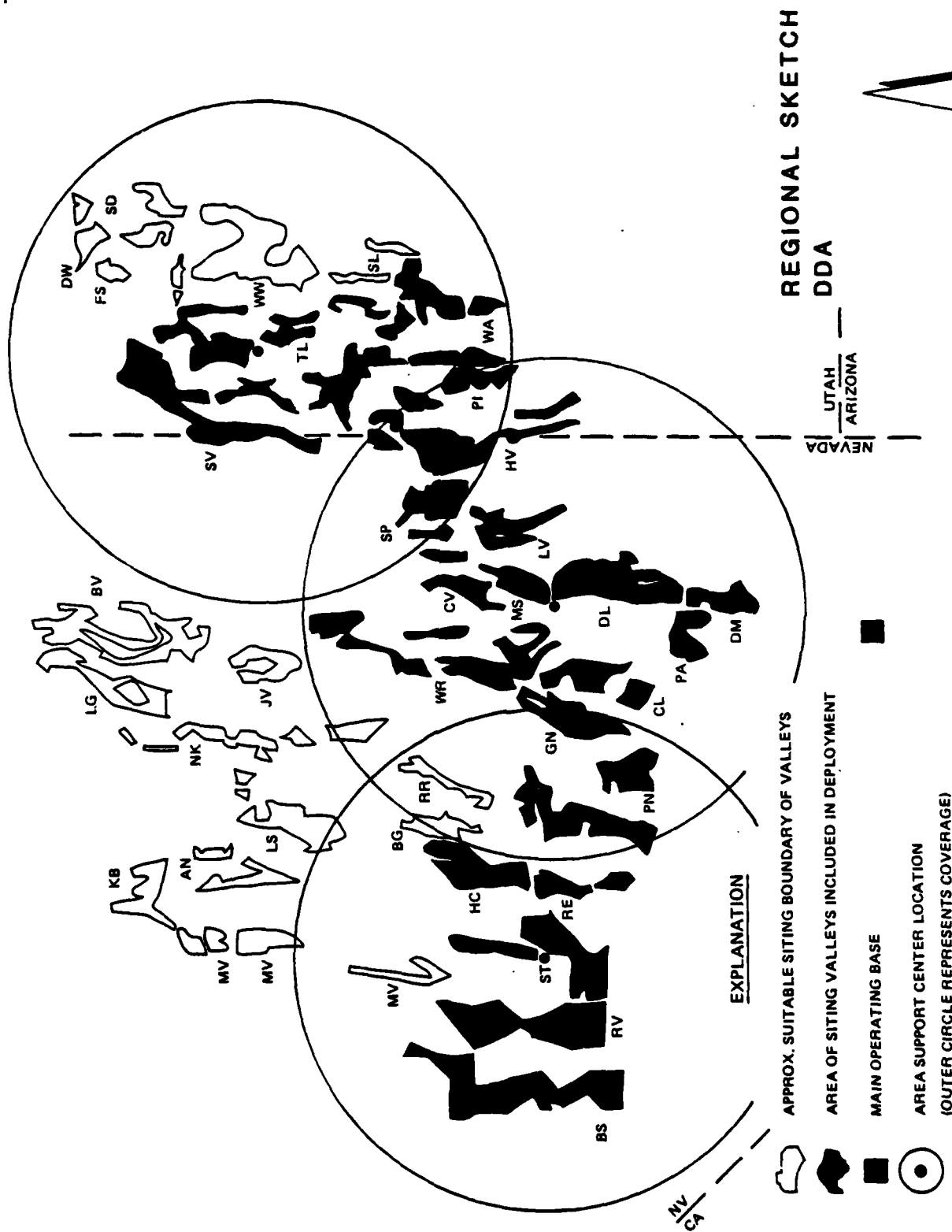
2.0 4600 SHELTER OPTIONS

This section contains options for 4600 shelters as specified in Section 1.1.

A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

1) Best 4600 shelters and 15 percent - Coyote MOB

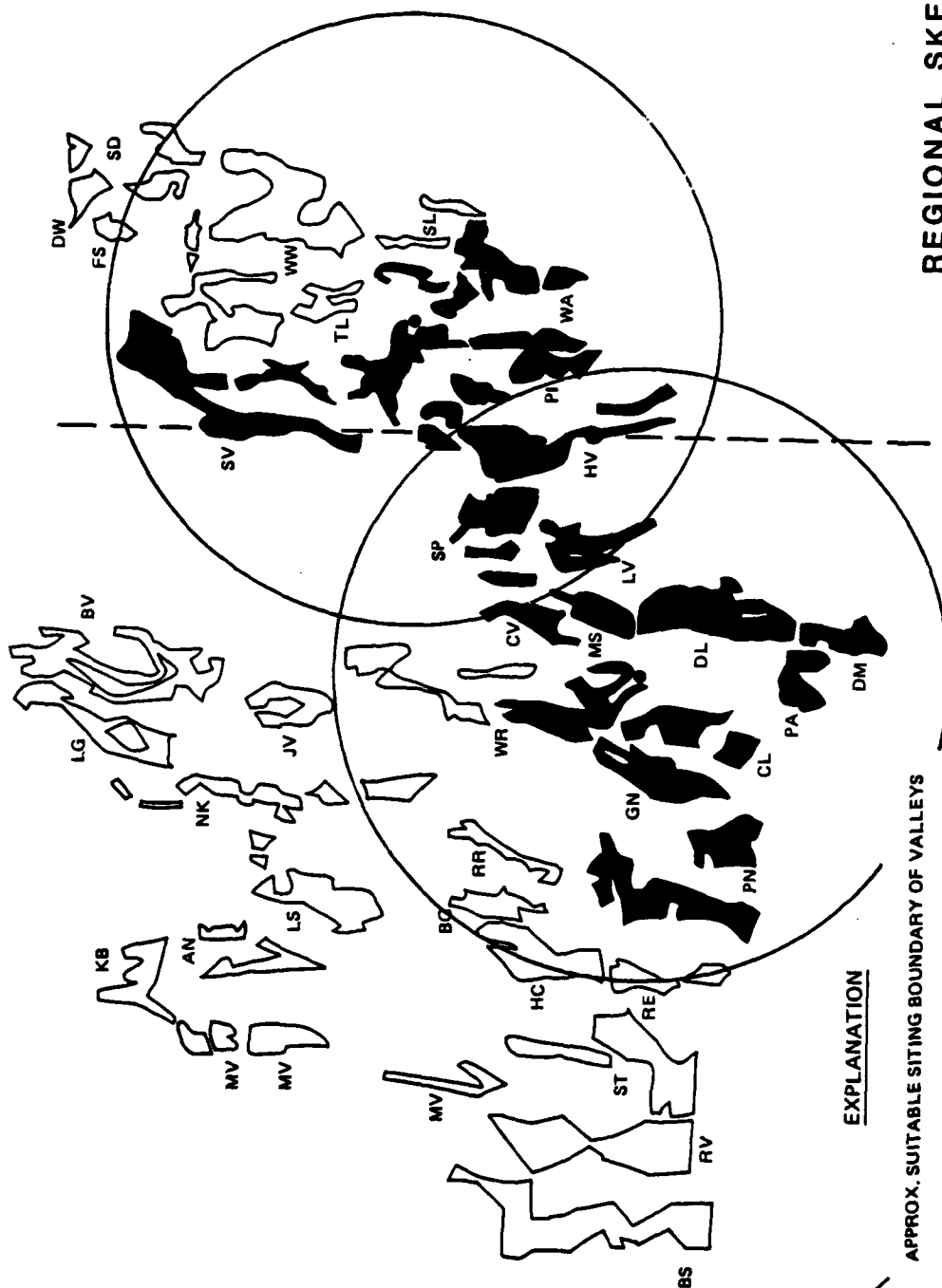
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV	650	Little Smoky	LS	
Tule	TL	367	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS	430	Railroad	RR	273
Butte	BV		Ralston	RV	312
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM	170	Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	398
Garden	GN	161			
			TOTAL SHELTERS		5332
			TOTAL VALLEYS		21
			TOTAL ASCs		3



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

1) Best 4600 shelters and 15 percent - Coyote MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	500
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	975	Little Smoky	LS	
Tule	TL	116	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS		Railroad	RR	410
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	328	Spring	SP	182
Delamar/Pahroc	DM	255	Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN	242			
			TOTAL SHELTERS		5370
			TOTAL VALLEYS		16
			TOTAL ASCs		2



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

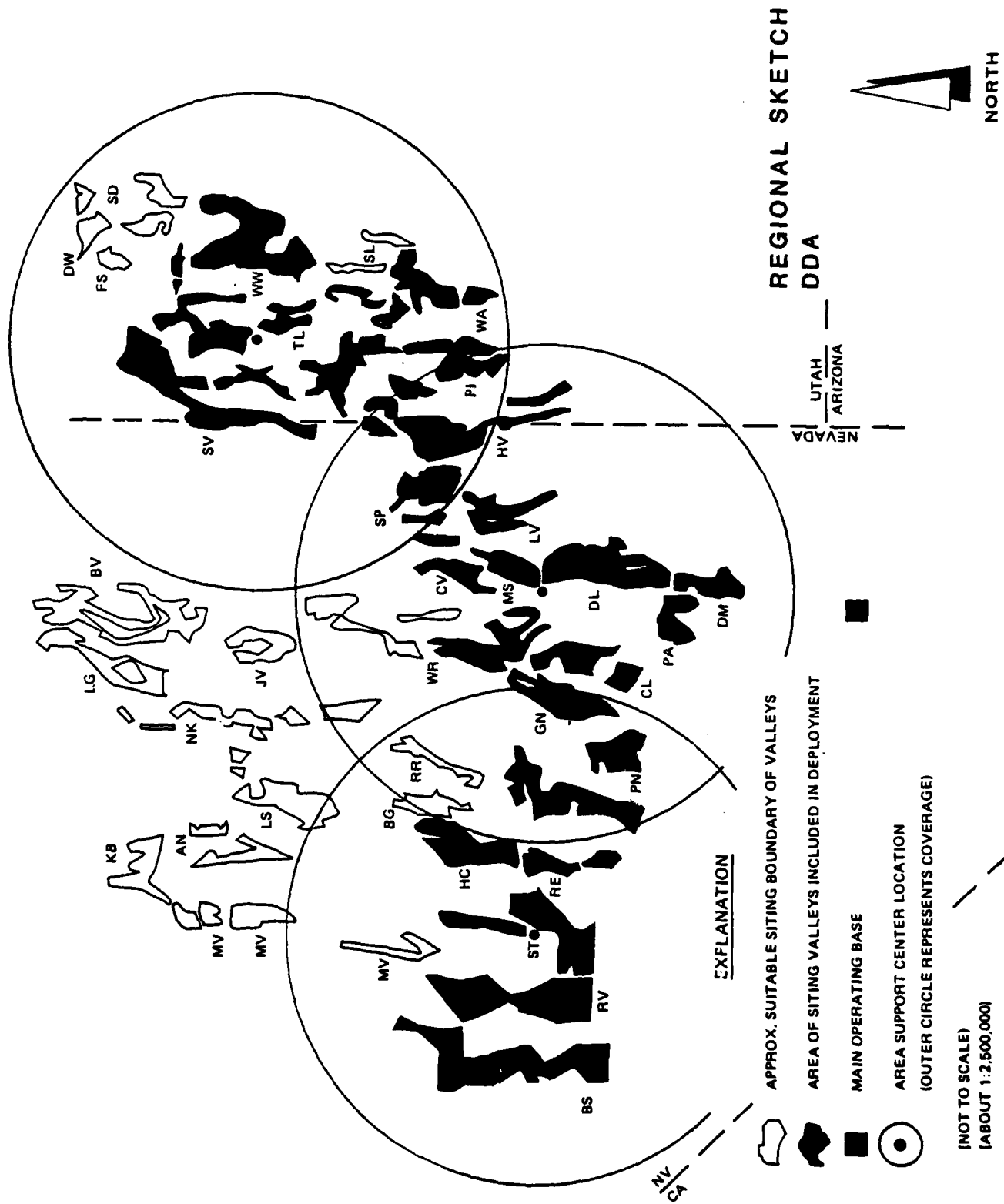
1) Best 4600 shelters and 15 percent - Coyote MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	114	Hamlin	HV	186
Fish Springs Flat	FS	50	Hot Creek	HC	99
Pine	PI	242	Jakes	JV	83
Sevier Desert	SD	62	Kobeh	KB	8
Sevier Lake	SL	57	Lake	LV	94
Snake	SV	390	Little Smoky	LS	137
Tule	TL	198	Long	LG	80
Wah Wah	WA	175	Monitor	MV	83
Whirlwind	WW	215	Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		4968
			TOTAL VALLEYS		35
			TOTAL ASCS		4

D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

1) Best 4600 shelters and 15 percent - Coyote MOB

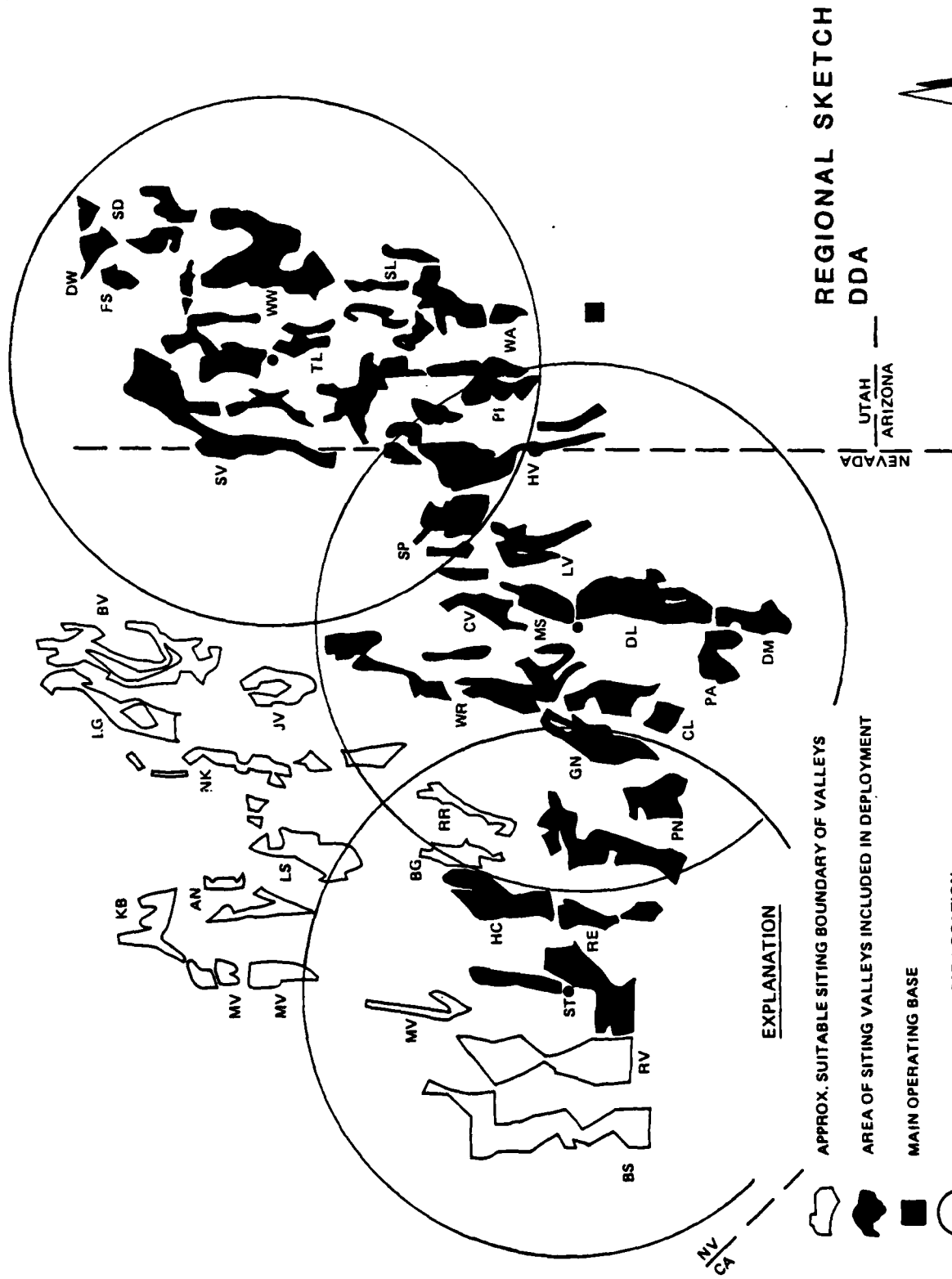
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS	34	Hot Creek	HC	148
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW	290	Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS	284	Railroad	RR	246
Butte	BV		Ralston	RV	384
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM	207	Stone Cabin	ST	238
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		5481
			TOTAL VALLEYS		23
			TOTAL ASCS		3



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

2) Best 4600 shelters and 15 percent - Milford MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	132	Hamlin	HV	333
Fish Springs Flat	FS	99	Hot Creek	HC	167
Pine	PI	249	Jakes	JV	
Sevier Desert	SD	142	Kobeh	KB	
Sevier Lake	SL	70	Lake	LV	191
Snake	SV	650	Little Smoky	LS	
Tule	TL	367	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW	291	Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM	170	Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	398
Garden	GN	161			
			TOTAL SHELTERS		5324
			TOTAL VALLEYS		24
			TOTAL ASCs		3



REGIONAL SKETCH

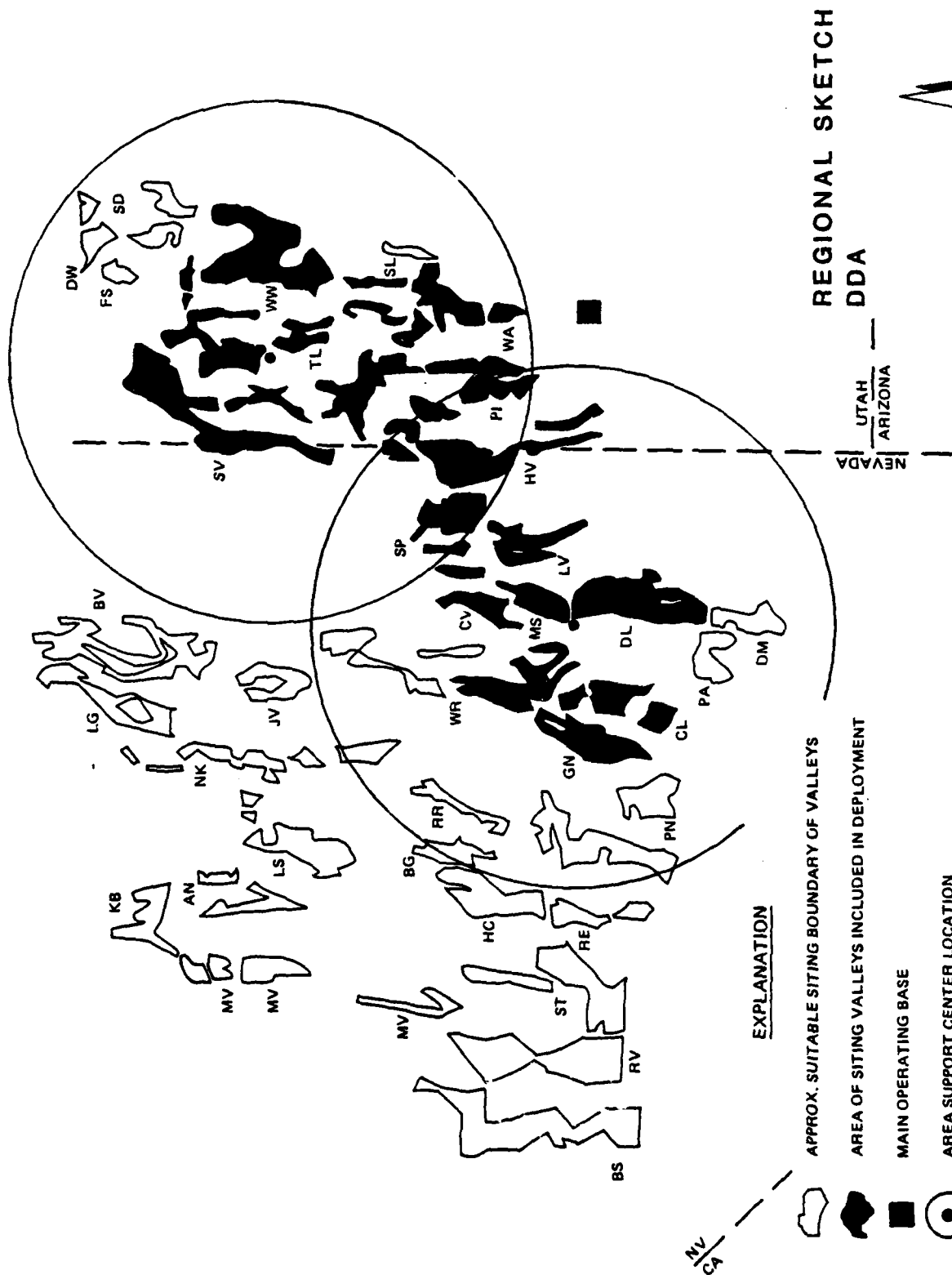
NEVADA ——— UTAH ——— ARIZONA ——— DDA



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

2) Best 4600 shelters and 15 percent - Milford MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	500
Fish Springs Flat	FS	67	Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	975	Little Smoky	LS	
Tule	TL	550	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW	436	Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	182
Coal	CL	328	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN	242			
			TOTAL SHELTERS		5324
			TOTAL VALLEYS		15
			TOTAL ASCS		2



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

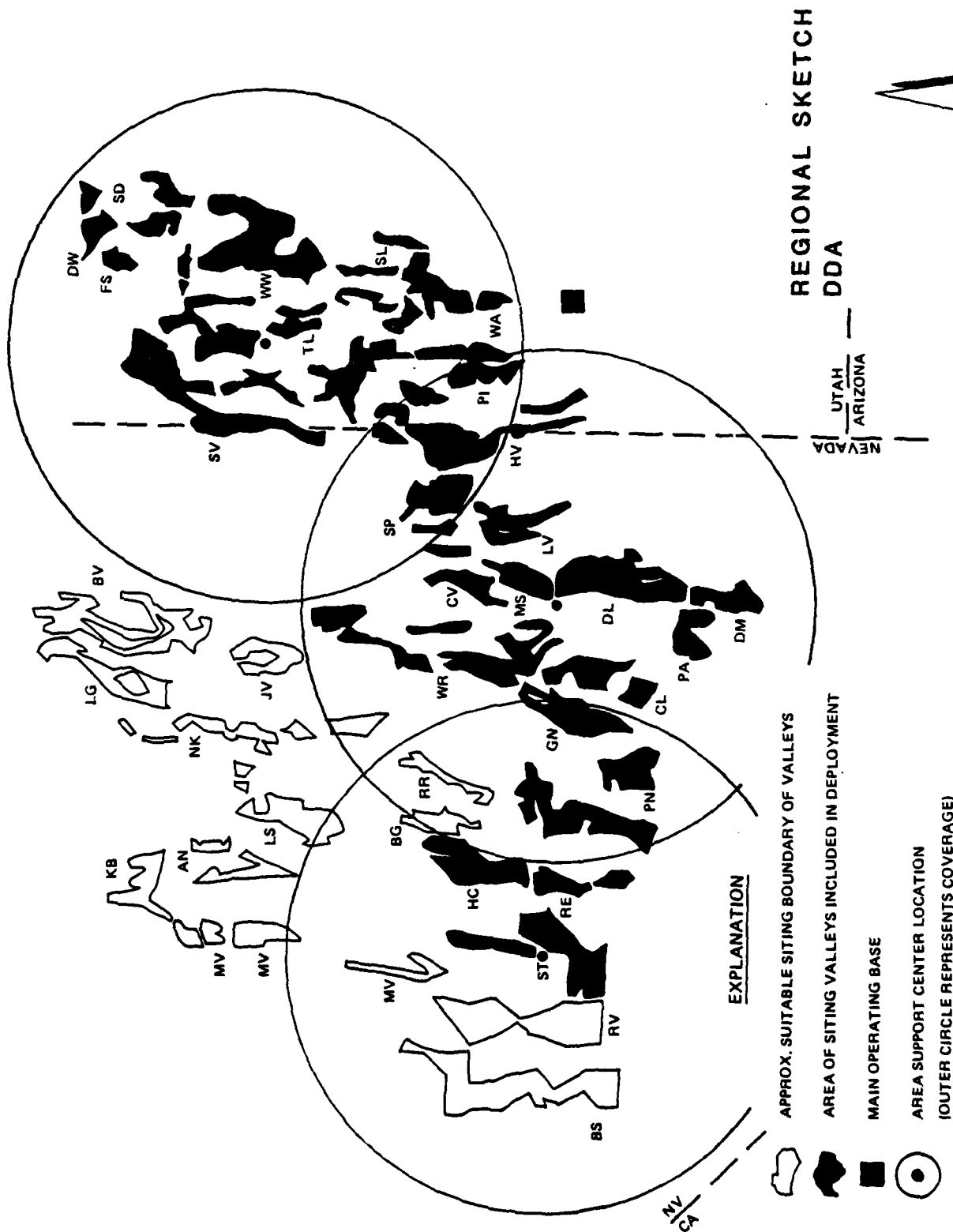
2) Best 4600 shelters and 15 percent - Milford MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	114	Hamlin	HV	186
Fish Springs Flat	FS	50	Hot Creek	HC	99
Pine	PI	242	Jakes	JV	83
Sevier Desert	SD	62	Kobeh	KB	8
Sevier Lake	SL	57	Lake	LV	94
Snake	SV	390	Little Smoky	LS	137
Tule	TL	198	Long	LG	80
Wah Wah	WA	175	Monitor	MV	83
Whirlwind	WW	215	Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		4968
			TOTAL VALLEYS		35
			TOTAL ASCs		4

D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

2) Best 4600 shelters and 15 percent - Milford MOB

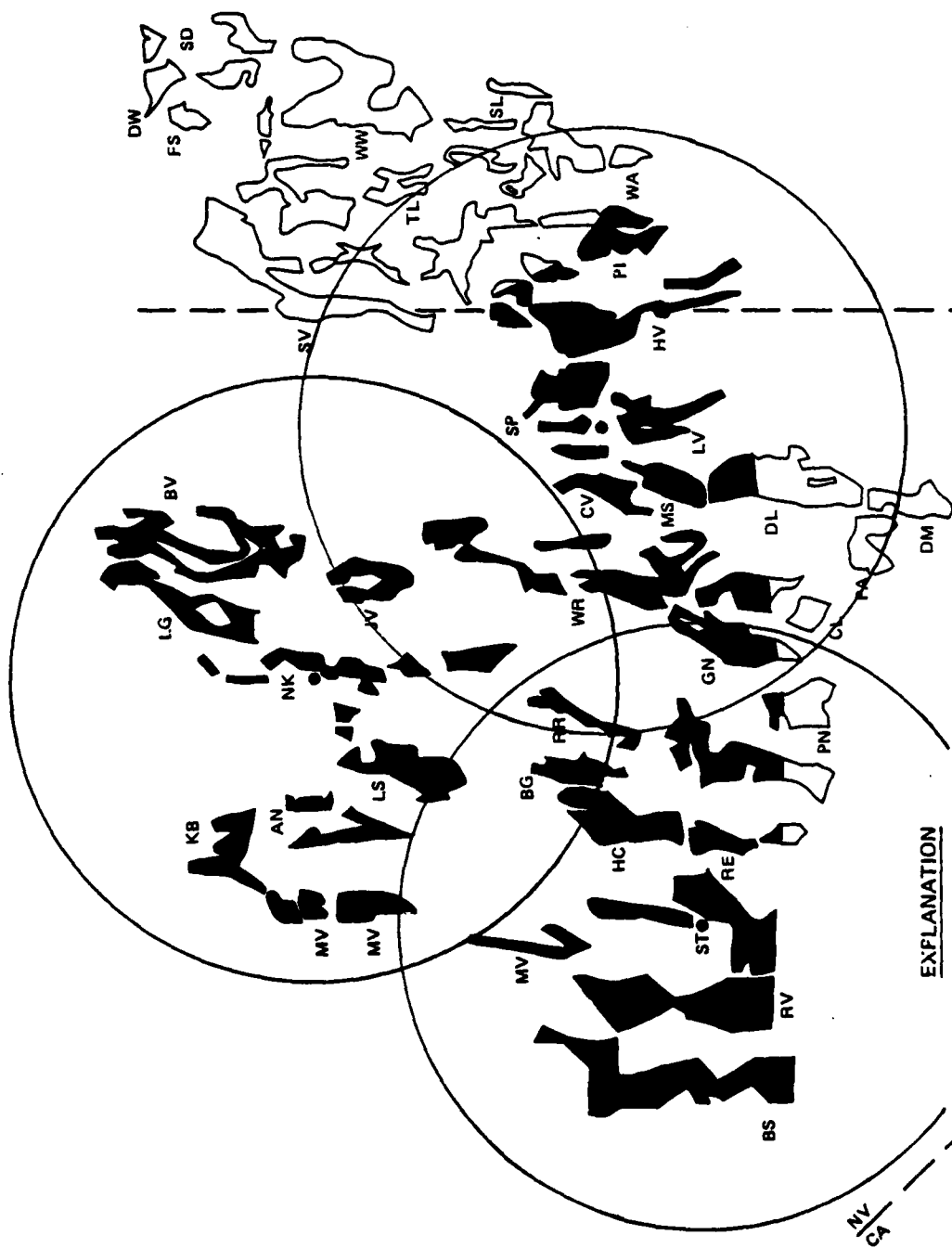
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	171	Hamlin	HV	279
Fish Springs Flat	FS	75	Hot Creek	HC	148
Pine	PI	363	Jakes	JV	
Sevier Desert	SD	93	Kobeh	KB	
Sevier Lake	SL	86	Lake	LV	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW	322	Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	246
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM	207	Stone Cabin	ST	238
Dry Lake	DL	400	White River	WR	286
Garden	GN	189			
			TOTAL SHELTERS		5332
			TOTAL VALLEYS		24
			TOTAL ASCs		3



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

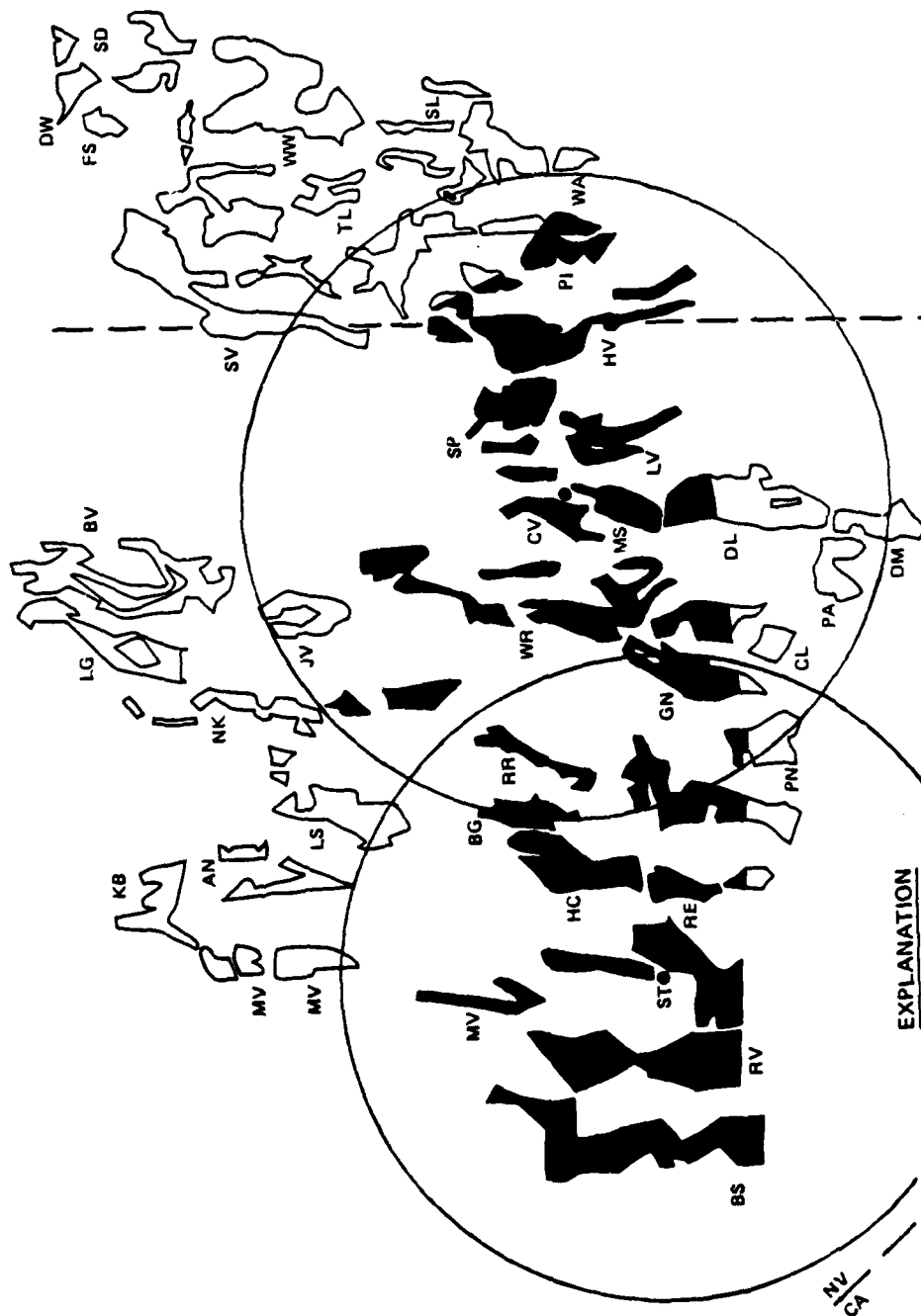
3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	300
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	166	Jakes	JV	89
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	SL		Lake	LV	191
Snake	SV	26	Little Smoky	LS	195
Tule	TL		Long	LG	125
Wah Wah	WA		Monitor	MV	276
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	355
Butte	BV	293	Ralston	RV	312
Cave	CV	79	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	95	White River	WR	398
Garden	GN	110			
			TOTAL SHELTERS		4885
			TOTAL VALLEYS		27
			TOTAL ASCs		3



- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	450
Fish Springs Flat	FS		Hot Creek	HC	250
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	48	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	140
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG	105	Penoyer	PN	52
Big Smoky	BS	645	Railroad	RR	506
Butte	BV		Ralston	RV	468
Cave	CV	118	Reveille	RE	110
Coal	CL	172	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	496
Dry Lake	DL	142	White River	WR	597
Garden	GN	165			
			TOTAL SHELTERS		5303
			TOTAL VALLEYS		20
			TOTAL ASCS		2



REGIONAL SKETCH

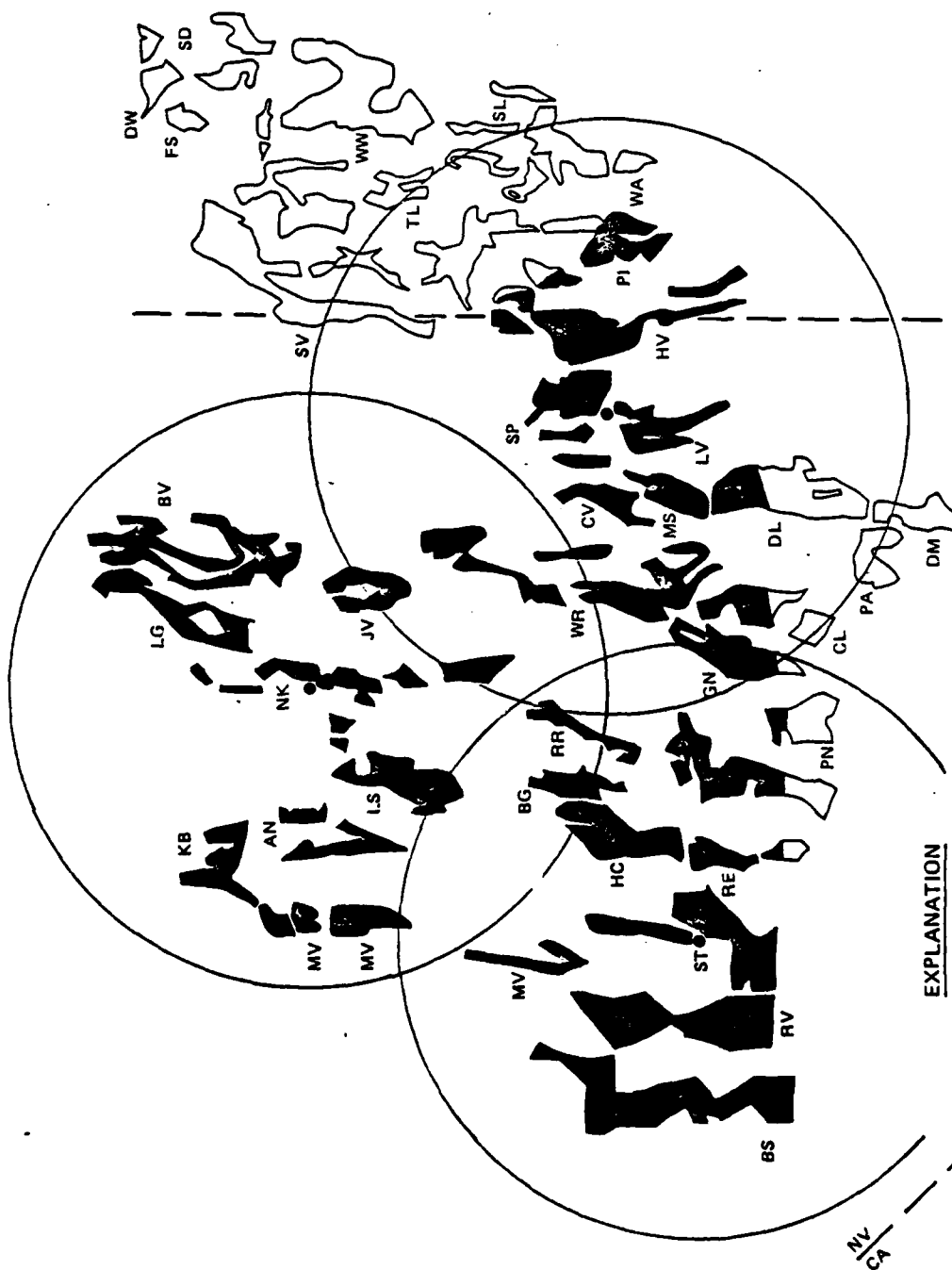
DDA

UTAH
ARIZONA
NEVADA



- C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water
- 3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Duyway	DW		Hamlin	HV	168
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI	161	Jakes	JV	83
Sevier Desert	SD		Kobeh	KB	8
Sevier Lake	SL		Lake	LV	94
Snake	SV	16	Little Smoky	LS	137
Tule	TL		Long	LG	80
Wah Wah	WA		Monitor	MV	83
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	59
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	89	White River	WR	191
Garden	GN	86			
			TOTAL SHELTERS		2976
			TOTAL VALLEYS		27
			TOTAL ASCs		3



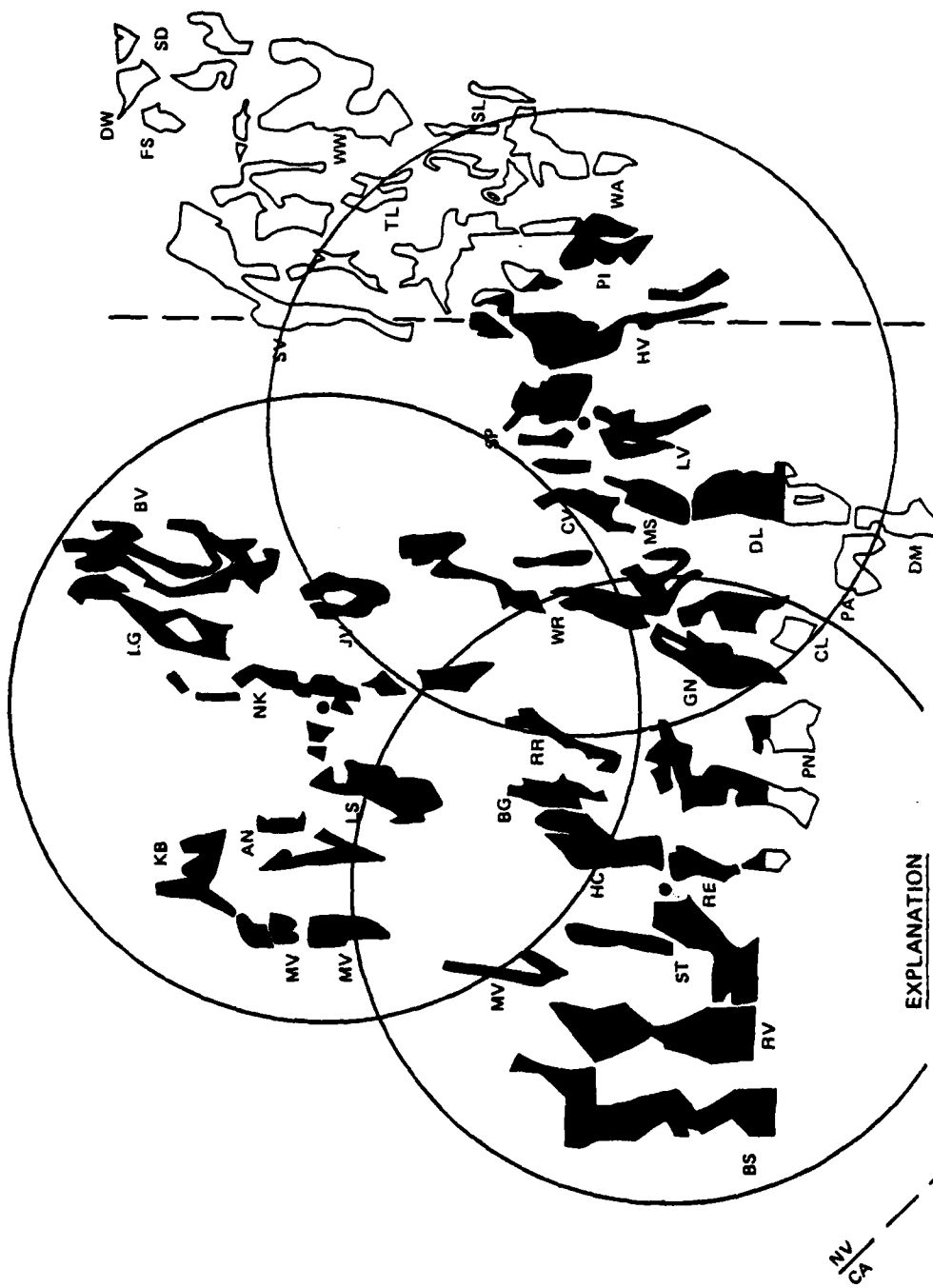
REGIONAL SKETCH

UTAH — DDA
ARIZONA
NEVADA



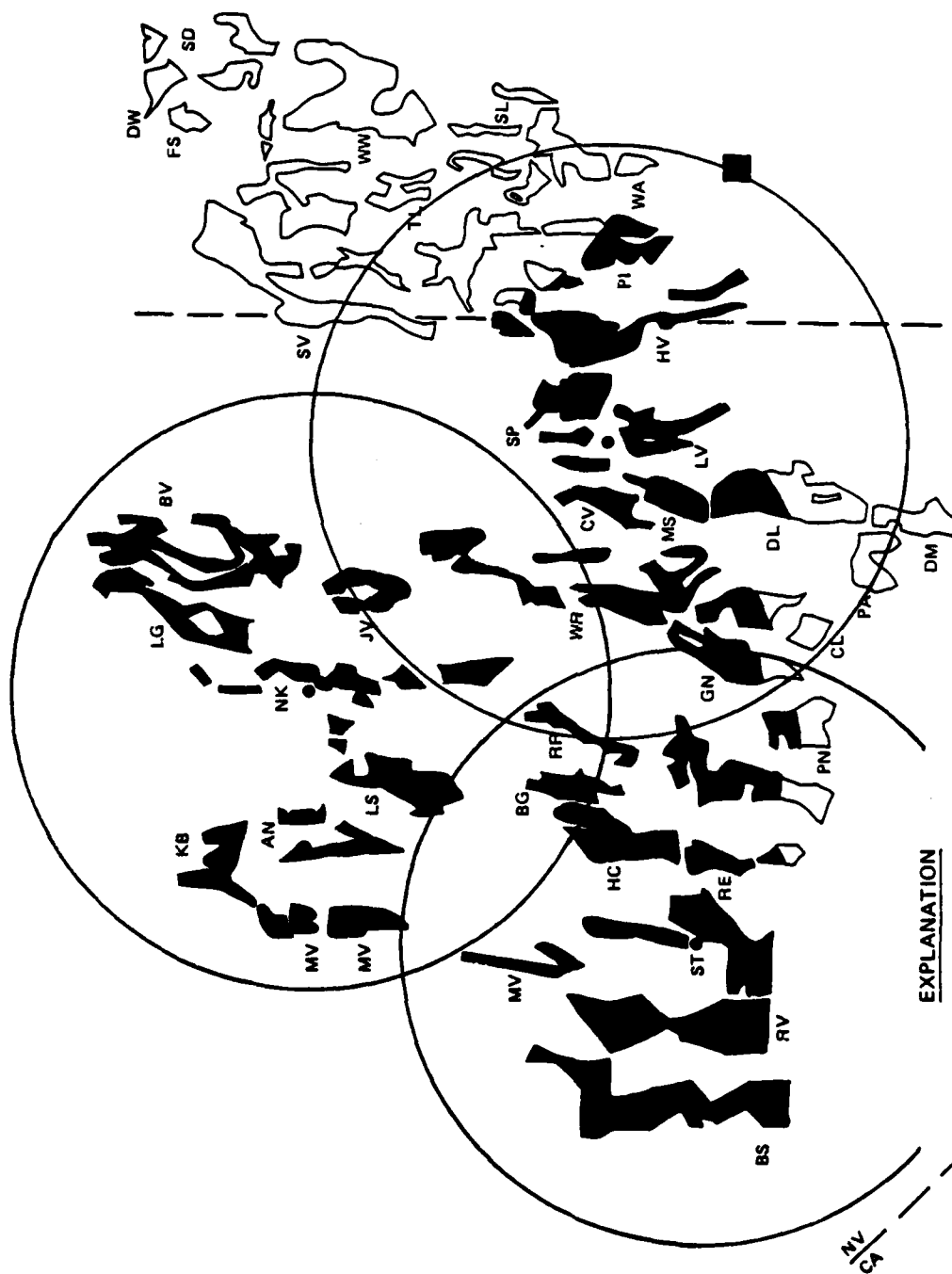
- D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water
- 3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Duqway	DW		Hamlin	HV	252
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI	242	Jakes	JV	124
Sevier Desert	SD		Kobeh	KB	12
Sevier Lake	SL		Lake	LV	141
Snake	SV	24	Little Smoky	LS	206
Tule	TL		Long	LG	120
Wah Wah	WA		Monitor	MV	124
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN	76	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	36
Big Smoky	BS	284	Railroad	RR	320
Butte	BV	396	Ralston	RV	384
Cave	CV	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	134	White River	WR	286
Garden	GN	129			
			TOTAL SHELTERS		4464
			TOTAL VALLEYS		27
			TOTAL ASCs		3



- A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 4) Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	300
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	166	Jakes	JV	89
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	SL		Lake	LV	191
Snake	SV	26	Little Smoky	LS	195
Tule	TL		Long	LG	125
Wah Wah	WA		Monitor	MV	276
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	355
Butte	BV	293	Ralston	RV	312
Cave	CV	79	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	95	White River	WR	398
Garden	GN	110			
			TOTAL SHELTERS		4885
			TOTAL VALLEYS		27
			TOTAL ASCs		3



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

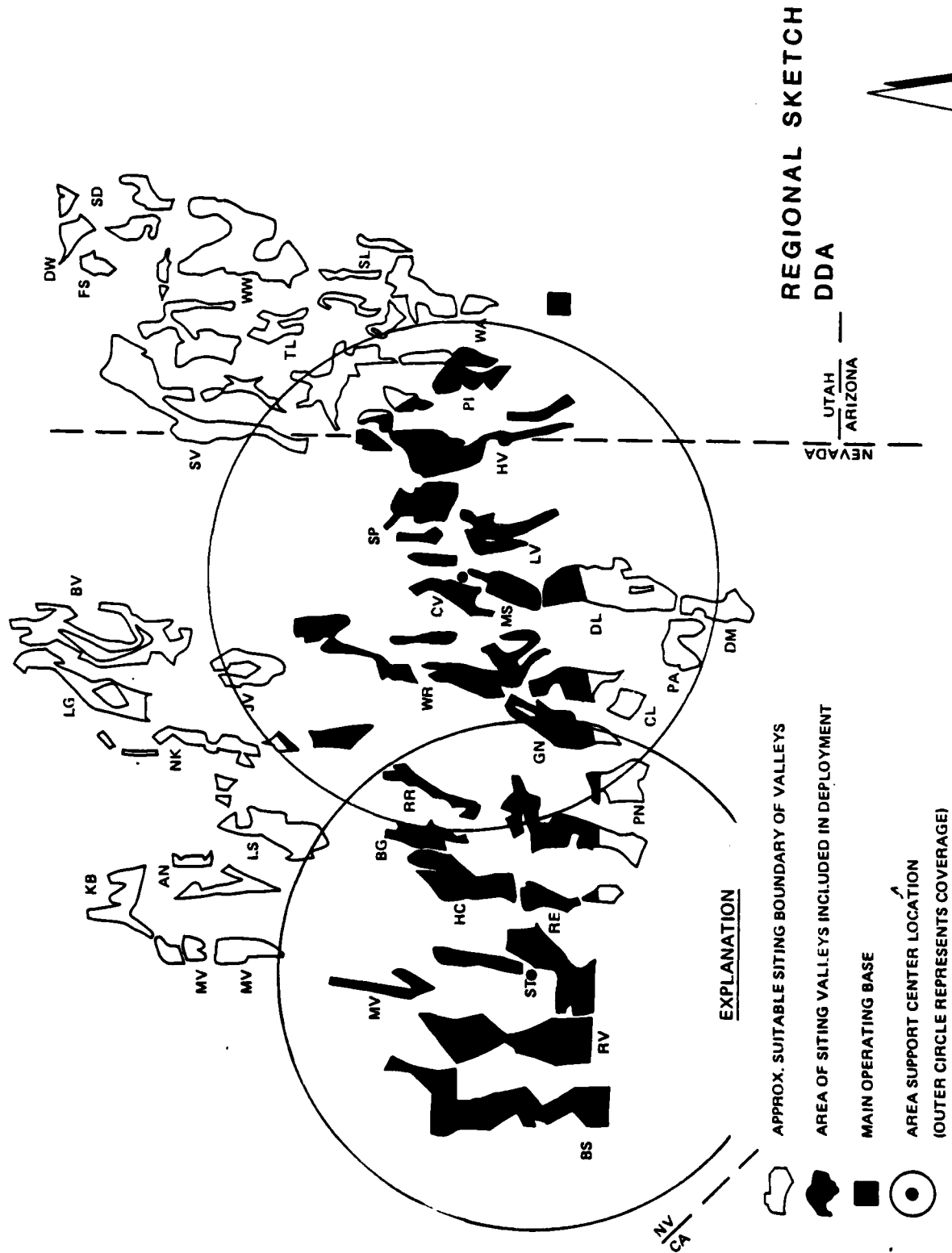
NEVADA ——— DDA
UTAH ———
ARIZONA ———



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

4) Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

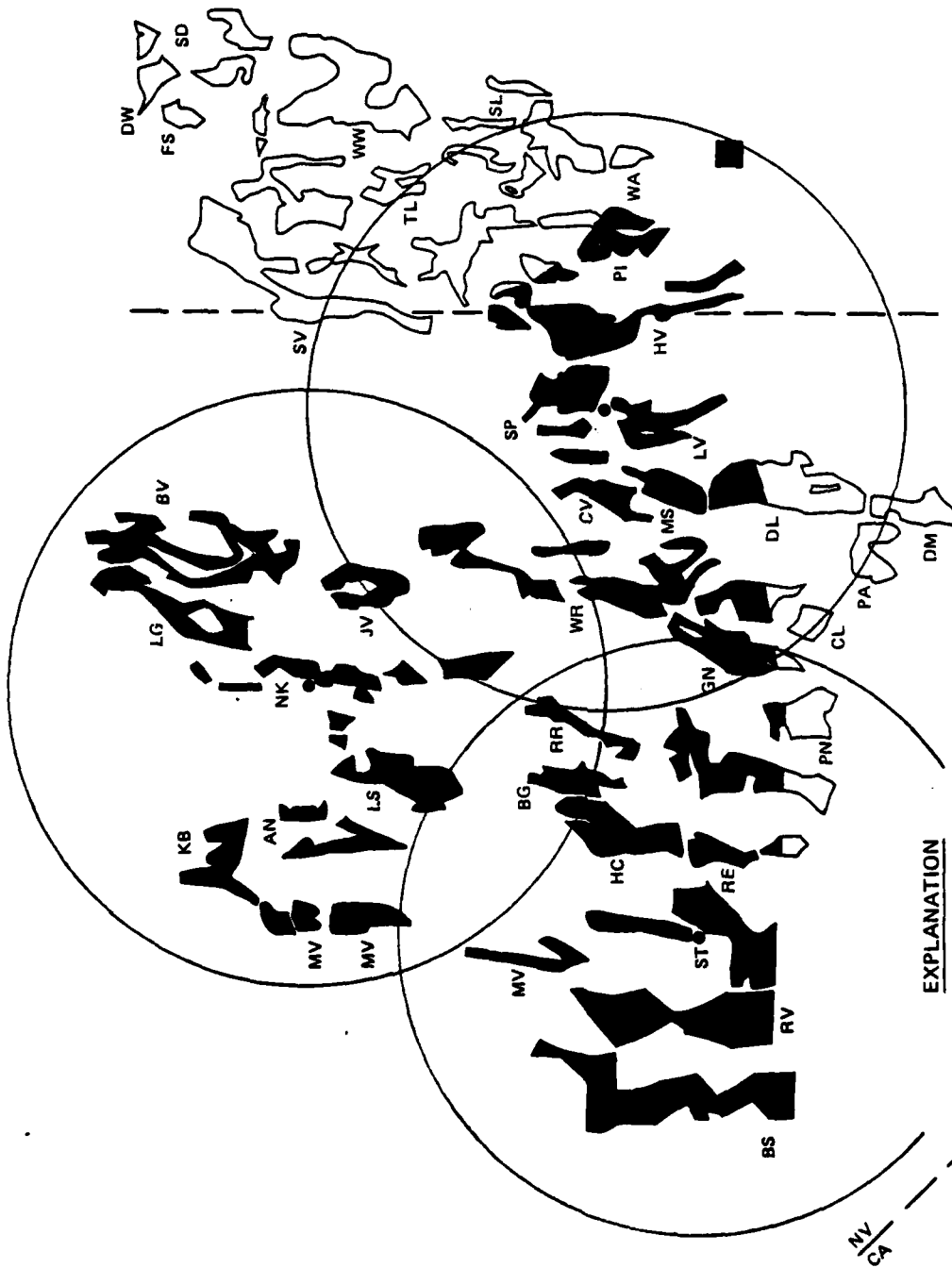
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	450
Fish Springs Flat	FS		Hot Creek	HC	250
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	48	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	140
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG	105	Penoyer	PN	52
Big Smoky	BS	645	Railroad	RR	506
Butte	BV		Ralston	RV	468
Cave	CV	118	Reveille	RE	110
Coal	CL	172	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	496
Dry Lake	DL	142	White River	WR	597
Garden	GN	165			
			TOTAL SHELTERS		5303
			TOTAL VALLEYS		20
			TOTAL ASCs		2



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

4) Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	168
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI	161	Jakes	JV	83
Sevier Desert	SD		Kobeh	KB	8
Sevier Lake	SL		Lake	LV	94
Snake	SV	16	Little Smoky	LS	137
Tule	TL		Long	LG	80
Wah Wah	WA		Monitor	MV	83
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	59
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	89	White River	WR	191
Garden	GN	86			
			TOTAL SHELTERS		2976
			TOTAL VALLEYS		27
			TOTAL ASCs		3



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

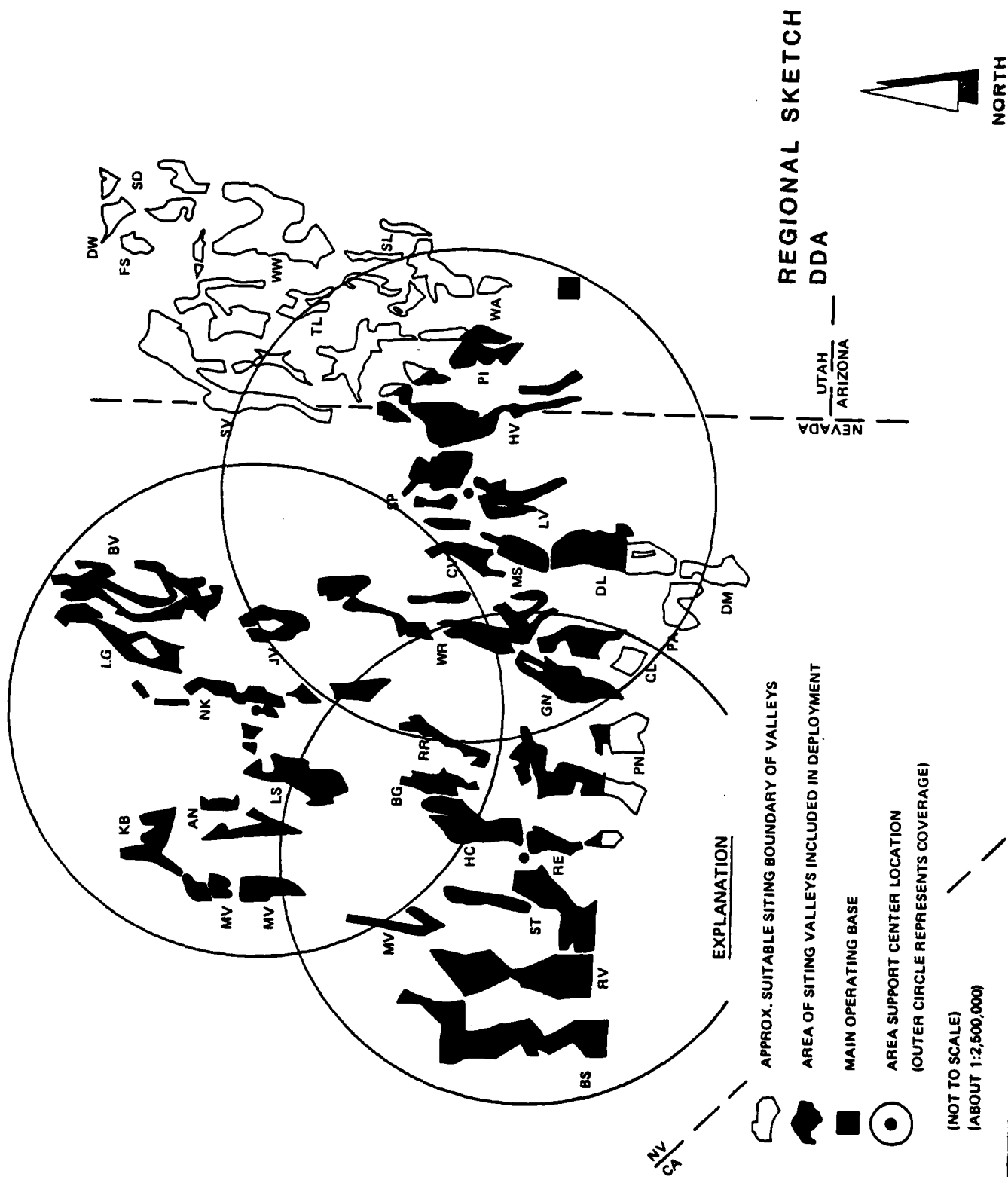
REGIONAL SKETCH

UTAH
ARIZONA
NEVADA
DDA



- D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water
- 4) Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

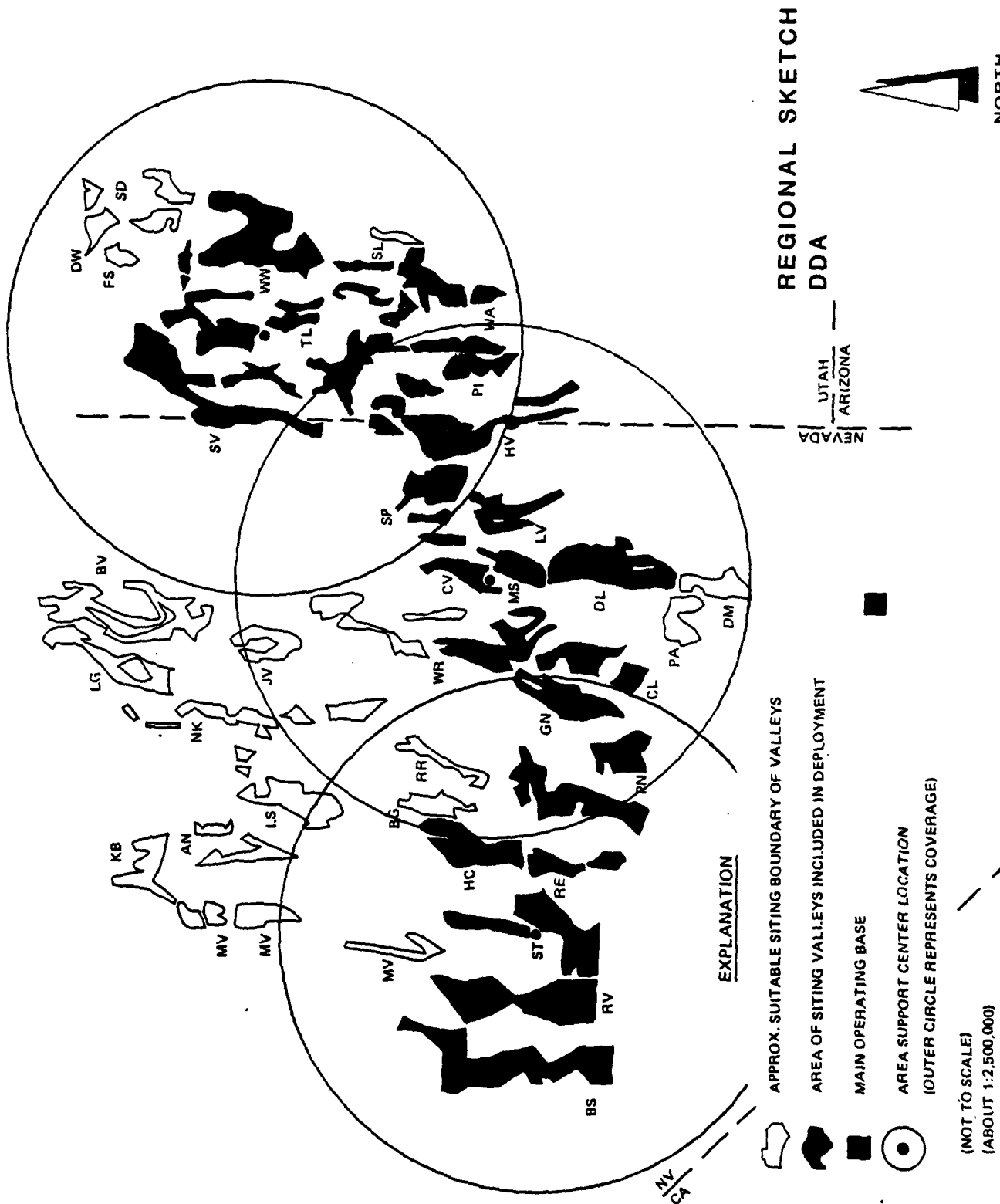
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Duqway	DW		Hamlin	HV	252
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI	242	Jakes	JV	124
Sevier Desert	SD		Kobeh	KB	12
Sevier Lake	SL		Lake	LV	141
Snake	SV	24	Little Smoky	LS	206
Tule	TL		Long	LG	120
Wah Wah	WA		Monitor	MV	124
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN	76	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	36
Big Smoky	BS	284	Railroad	RR	320
Butte	BV	396	Ralston	RV	384
Cave	CV	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	134	White River	WR	286
Garden	GN	129			
			TOTAL SHELTERS		4464
			TOTAL VALLEYS		27
			TOTAL ASCS		3



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

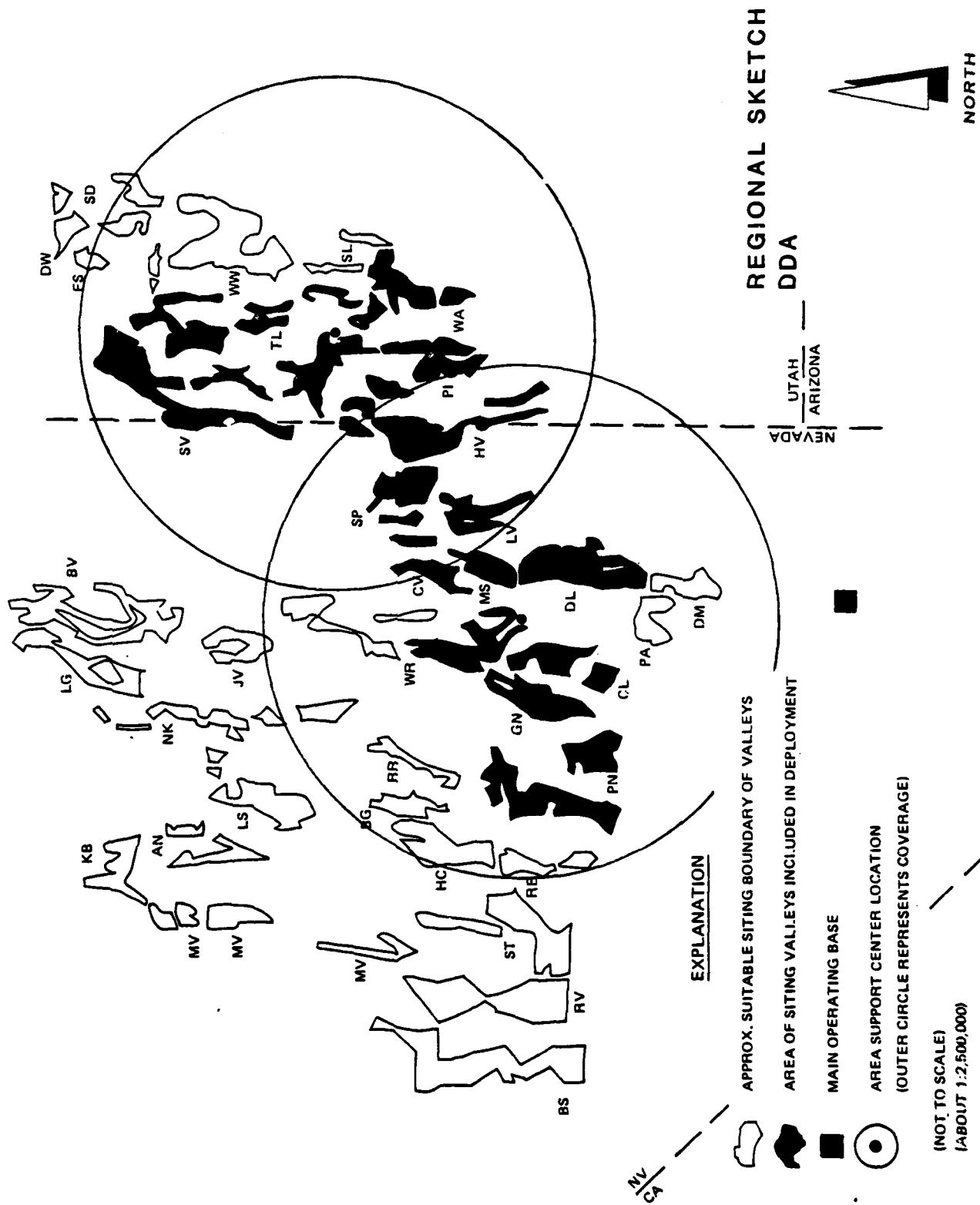
5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS	45	Hot Creek	HC	167
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV	650	Little Smoky	LS	
Tule	TL	367	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW	291	Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS	430	Railroad	RR	273
Butte	BV		Ralston	RV	312
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	265
Garden	GN	161			
			TOTAL SHELTERS		5365
			TOTAL VALLEYS		22
			TOTAL ASCs		3



- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

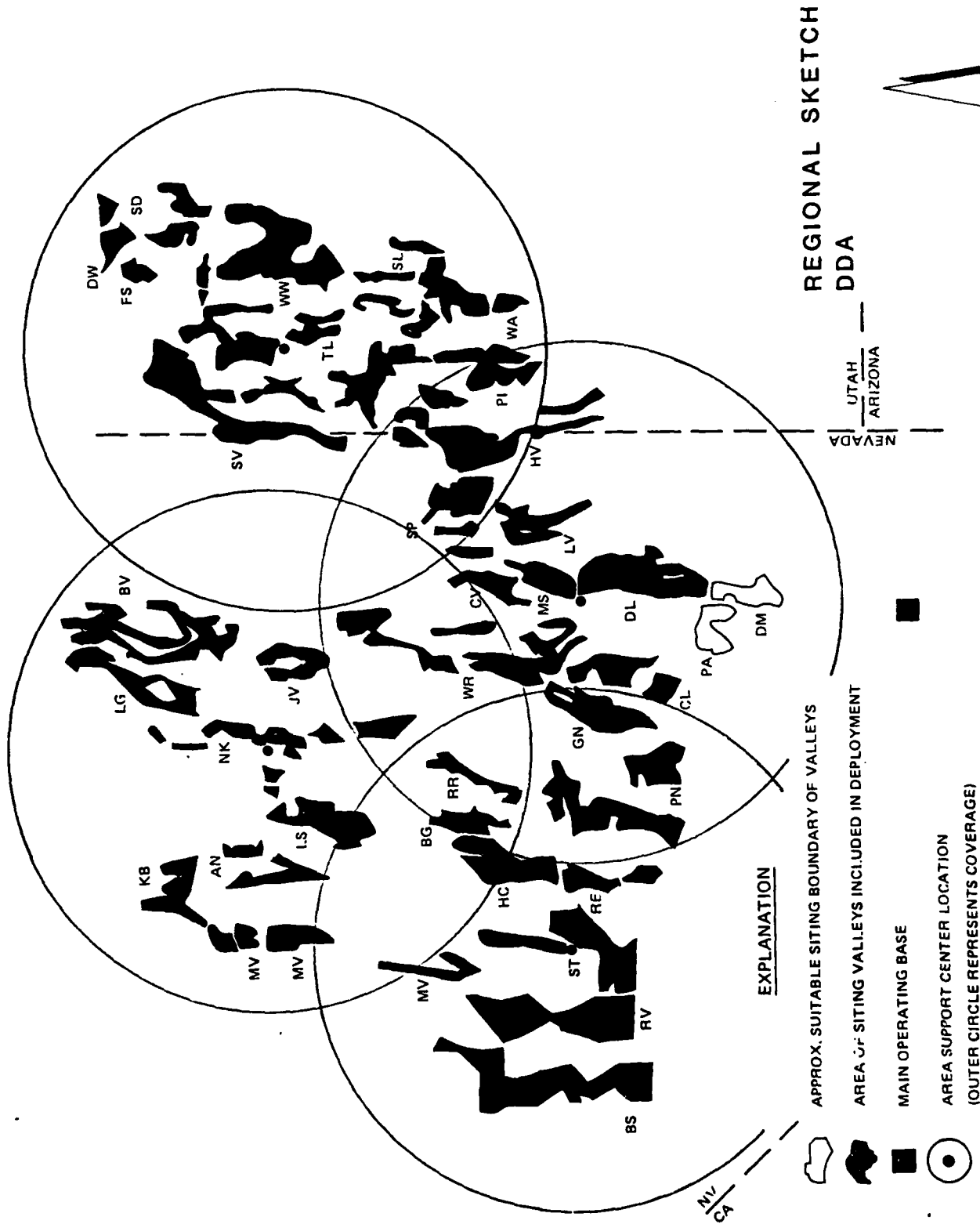
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	500
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	975	Little Smoky	LS	
Tule	TL	550	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS		Railroad	RR	410
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	182
Coal	CL	328	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN	242			
			TOTAL SHELTERS		5549
			TOTAL VALLEYS		15
			TOTAL ASCs		2



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

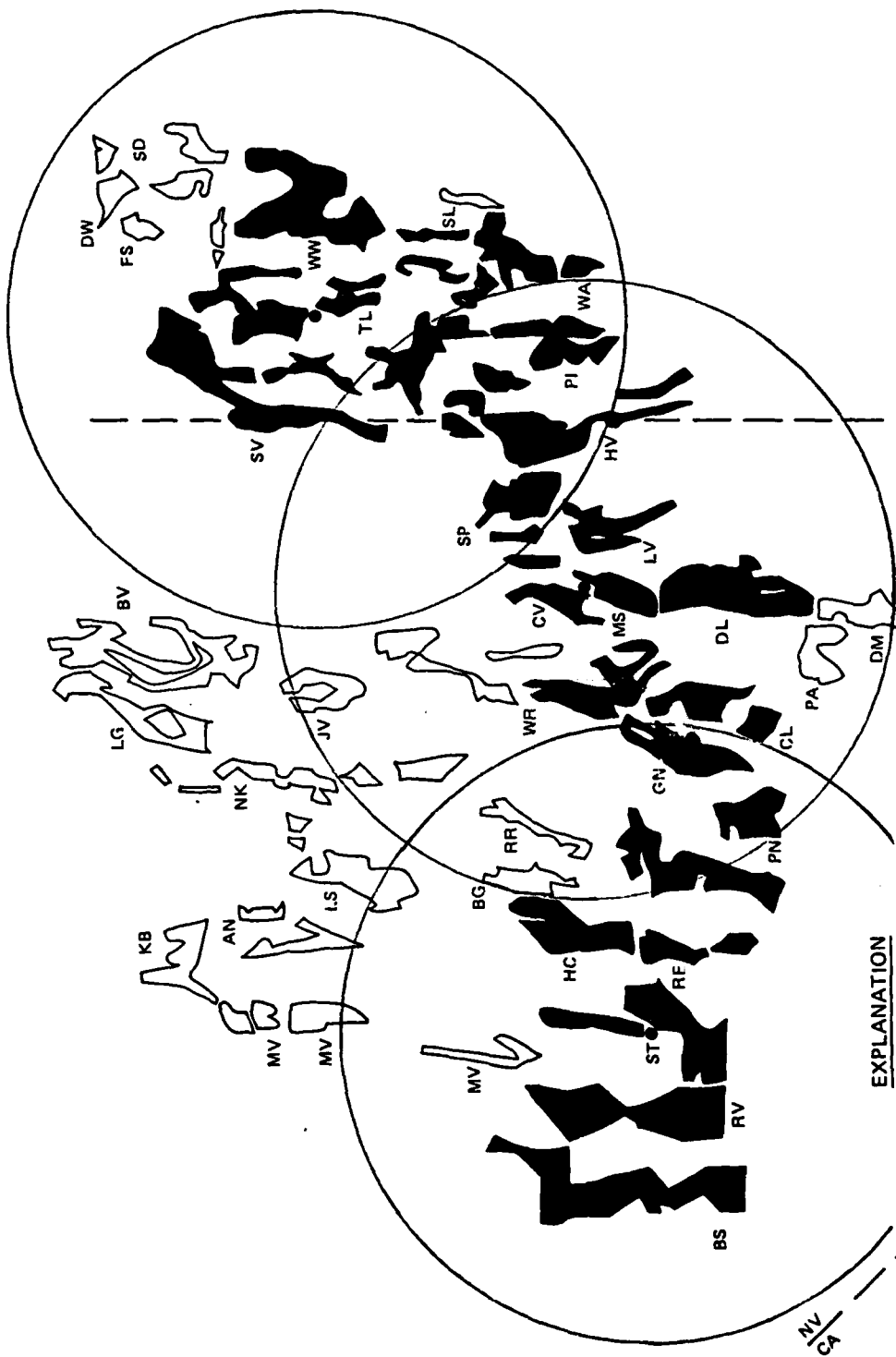
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	114	Hamlin	HV	186
Fish Springs Flat	FS	50	Hot Creek	HC	99
Pine	PI	242	Jakes	JV	83
Sevier Desert	SD	62	Kobeh	KB	8
Sevier Lake	SL	57	Lake	LV	94
Snake	SV	390	Little Smoky	LS	137
Tule	TL	198	Long	LG	80
Wah Wah	WA	175	Monitor	MV	83
Whirlwind	WW	215	Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		4830
			TOTAL VALLEYS		34
			TOTAL ASCs		4



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS	34	Hot Creek	HC	148
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Kobeh	KR	
Sevier Lake	SL		Lake	LV	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW	322	Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS	284	Railroad	RR	246
Butte	BV		Ralston	RV	384
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		5306
			TOTAL VALLEYS		22
			TOTAL ASCs		3



REGIONAL SKETCH

NEVADA — DDA
UTAH —
ARIZONA —



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

6) Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	132	Hamlin	HV	333
Fish Springs Flat	FS	99	Hot Creek	HC	167
Pine	PI	249	Jakes	JV	
Sevier Desert	SD	142	Kobeh	KB	
Sevier Lake	SL	70	Lake	LV	191
Snake	SV	650	Little Smoky	LS	
Tule	TL	367	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW	291	Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	312
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM	170	Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	265
Garden	GN	161			

TOTAL SHELTERS

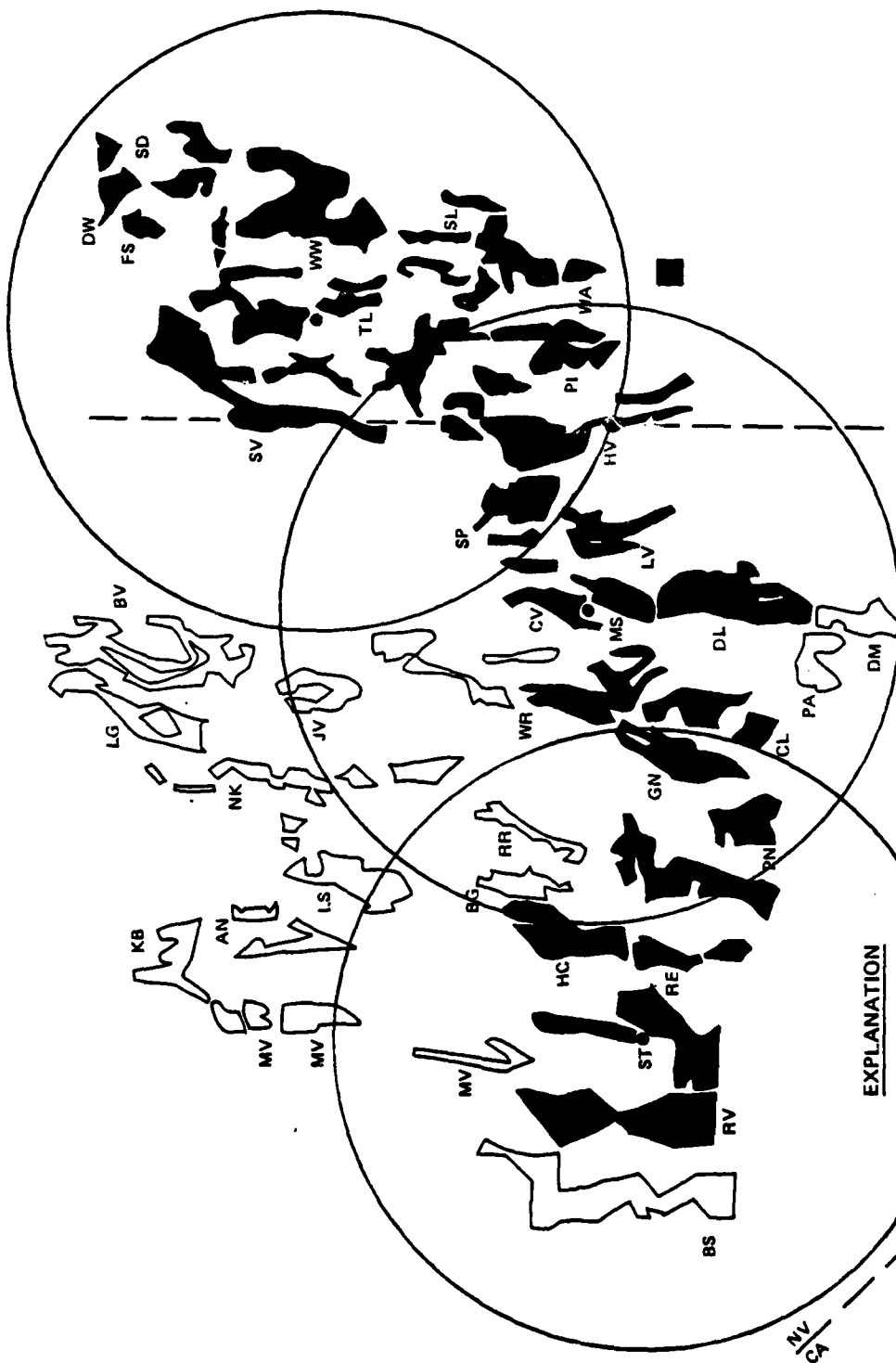
5333

TOTAL VALLEYS

24

TOTAL ASCs

3



REGIONAL SKETCH

DDA

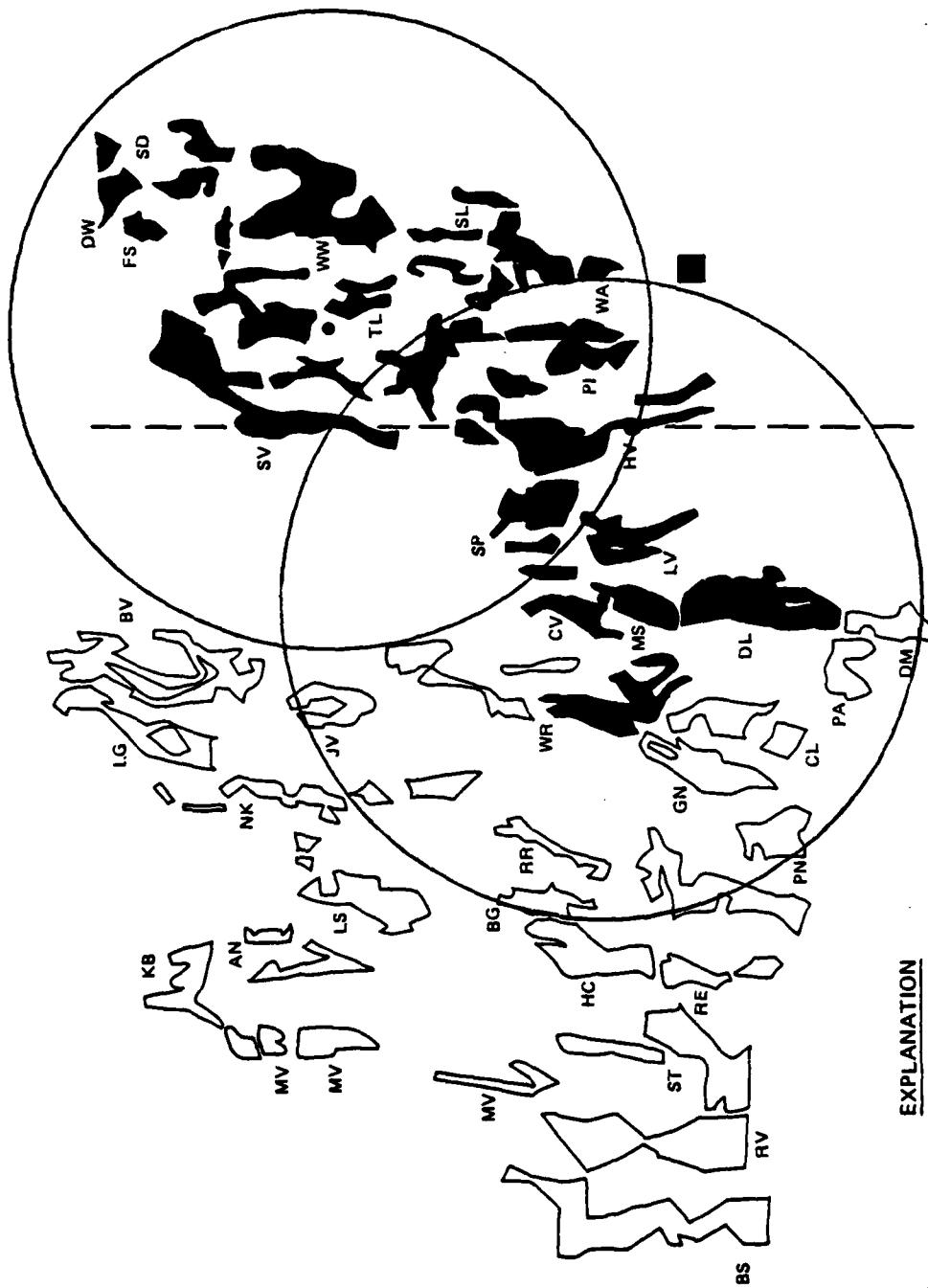
UTAH
ARIZONA
NEVADA



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

6) Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	198	Hamlin	HV	500
Fish Springs Flat	FS	148	Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD	213	Kobeh	KB	
Sevier Lake	SL	105	Lake	LV	286
Snake	SV	975	Little Smoky	LS	
Tule	TL	550	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW	436	Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL		Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		5351
			TOTAL VALLEYS		16
			TOTAL ASCs		2



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

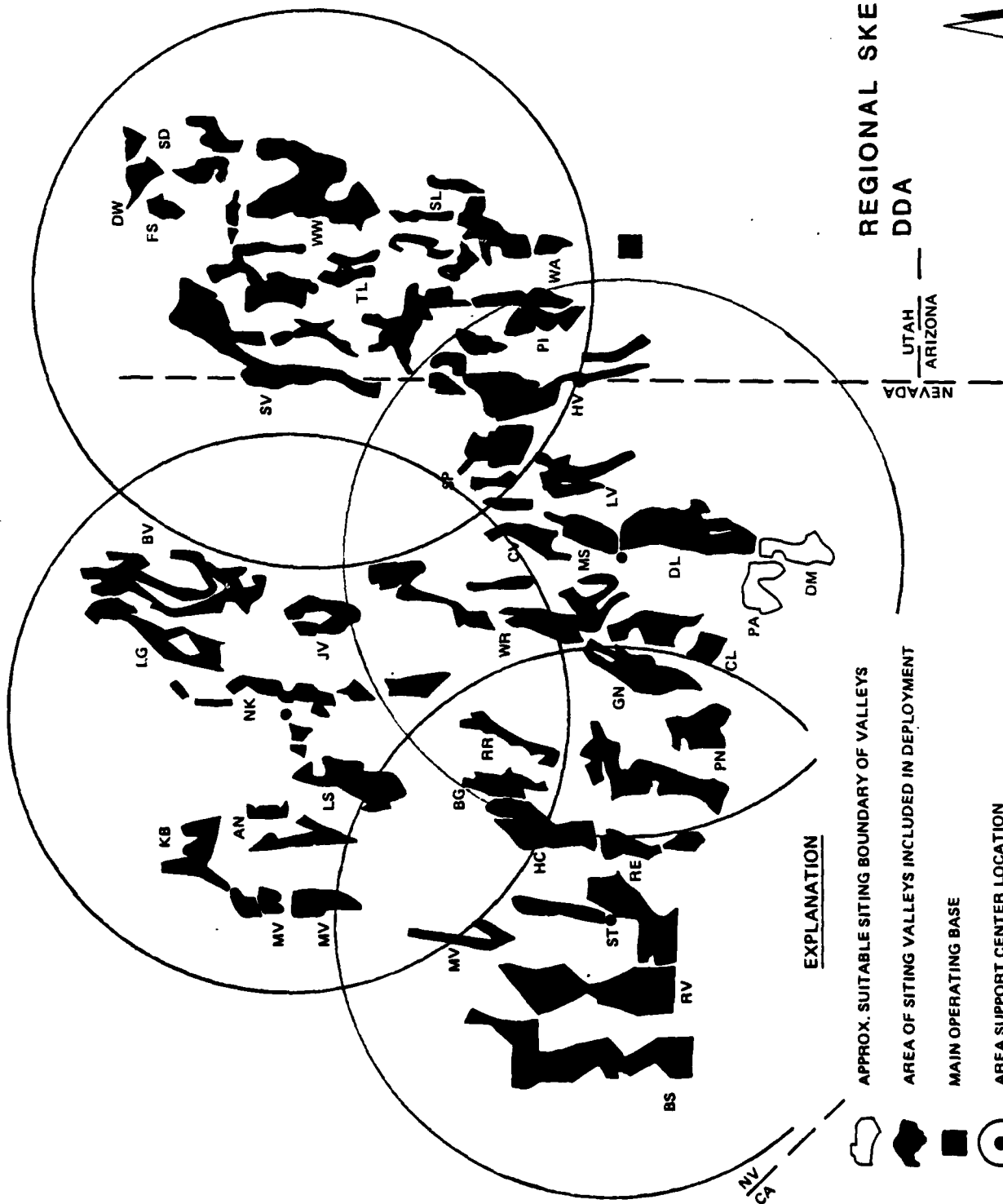
NEVADA ——— UTAH ——— DDA
ARIZONA



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

6) Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	114	Hamlin	HV	186
Fish Springs Flat	FS	50	Hot Creek	HC	99
Pine	PI	242	Jakes	JV	83
Sevier Desert	SD	62	Kobeh	KB	8
Sevier Lake	SL	57	Lake	LV	94
Snake	SV	390	Little Smoky	LS	137
Tule	TL	198	Long	LG	80
Wah Wah	WA	175	Monitor	MV	83
Whirlwind	WW	215	Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		4830
			TOTAL VALLEYS		34
			TOTAL ASCS		4



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

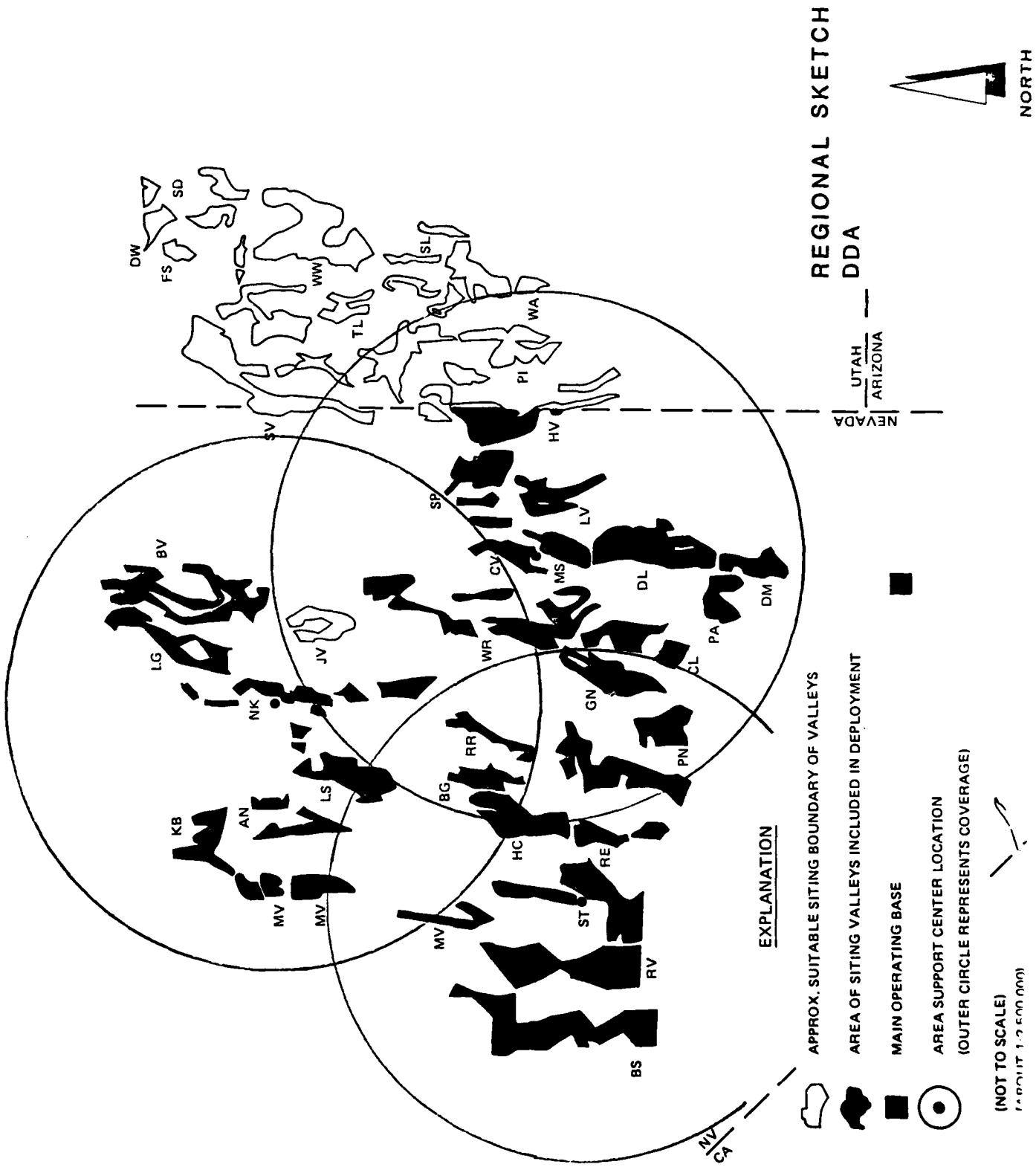
6) Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW	171	Hamlin	HV	279
Fish Springs Flat	FS	75	Hot Creek	HC	148
Pine	PI	363	Jakes	JV	
Sevier Desert	SD	93	Kobeh	KE	
Sevier Lake	SL		Lake	LV	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW	322	Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	246
Butte	BV		Ralston	RV	384
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		5327
			TOTAL VALLEYS		23
			TOTAL ASCs		3

A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

13-1) Best 4600 shelters and 15 percent - Coyote MOB, Nevada only

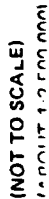
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	195
Tule	TL		Long	LG	125
Wah Wah	WA		Monitor	MV	276
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	212
Big Smoky	BS	430	Railroad	RR	455
Butte	BV	293	Ralston	RV	312
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM	170	Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	398
Garden	GN	161			
			TOTAL SHELTERS		5321
			TOTAL VALLEYS		25
			TOTAL AGCS		3



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

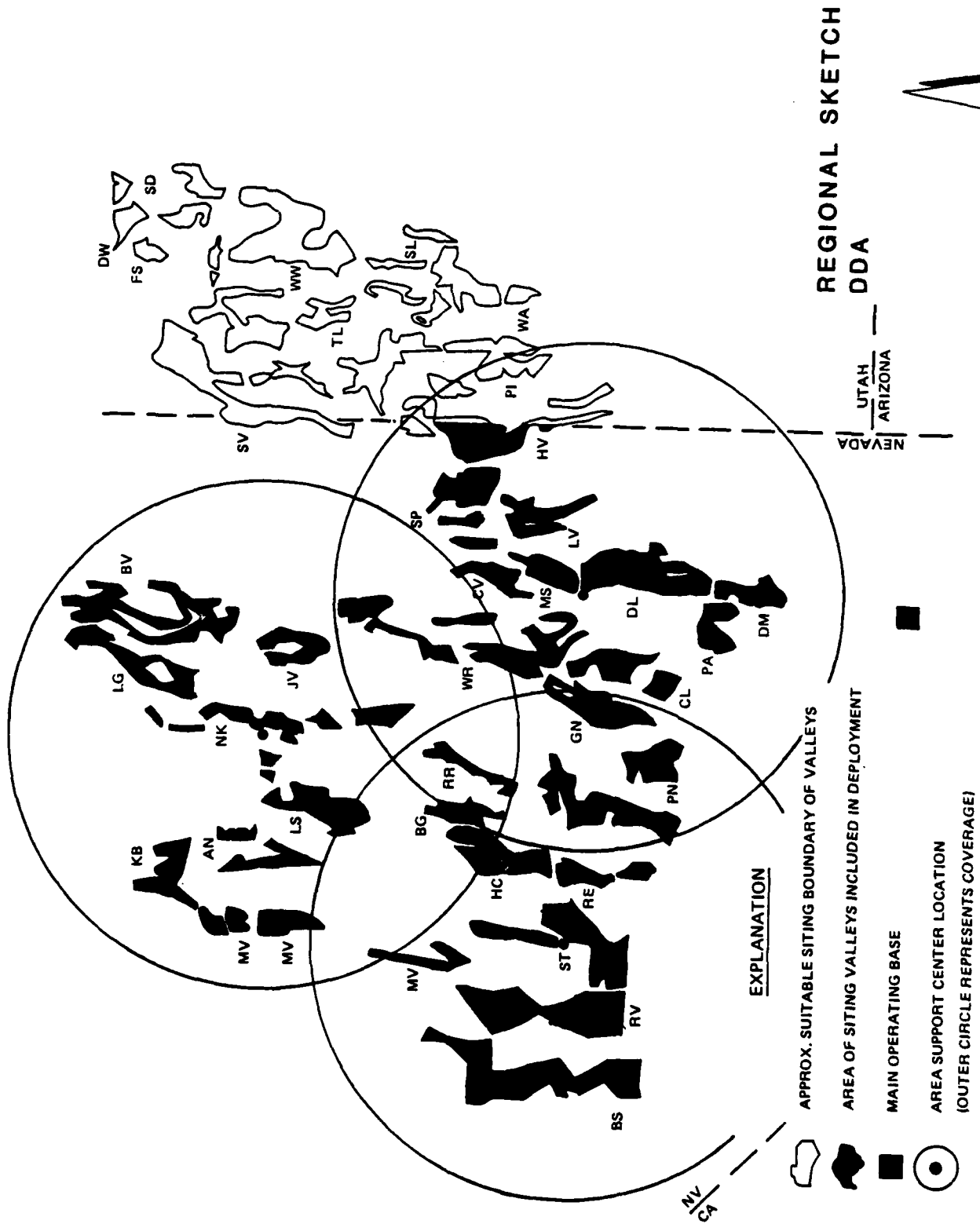
13-1) Best 4600 shelters and 15 percent - Coyote MOB, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	250
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS	645	Railroad	RR	410
Butte	BV		Ralston	RV	468
Cave	CV	118	Reveille	RE	136
Coal	CL	328	Spring	SP	182
Delamar/Pahroc	DM	255	Stone Cabin	ST	496
Dry Lake	DL	426	White River	WR	398
Garden	GN	242			
			TOTAL SHELTERS		5392
			TOTAL VALLEYS		17
			TOTAL ASCs		2



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water
 13-1) Best 4600 shelters and 15 percent - Coyote MOB, Nevada only

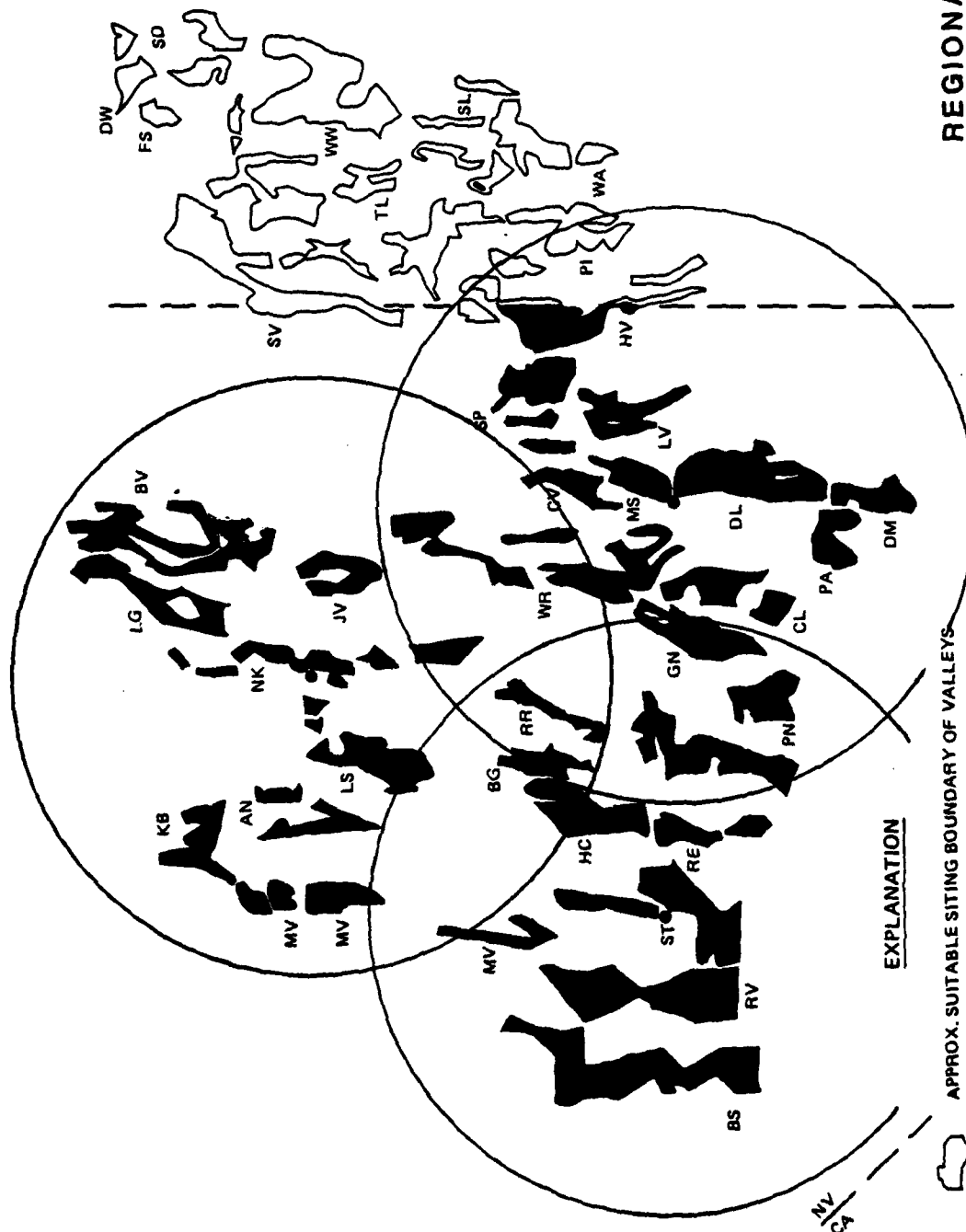
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	83
Sevier Desert	SD		Kobeh	KB	8
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	137
Tule	TL		Long	LG	80
Wah Wah	WA		Monitor	MV	83
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		3395
			TOTAL VALLEYS		26
			TOTAL ASCs		3



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

13-1) Best 4600 shelters and 15 percent - Coyote MOB, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	174
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI		Jakes	JV	124
Sevier Desert	SD		Kobeh	KB	12
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	206
Tule	TL		Long	LG	120
Wah Wah	WA		Monitor	MV	124
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN	76	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	219
Big Smoky	BS	284	Railroad	RR	410
Butte	BV	396	Ralston	RV	384
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM	207	Stone Cabin	ST	238
Dry Lake	DL	400	White River	WR	286
Garden	GN	189			
			TOTAL SHELTERS		5092
			TOTAL VALLEYS		26
			TOTAL ASCs		3



REGIONAL SKETCH

UTAH
ARIZONA
NEVADA



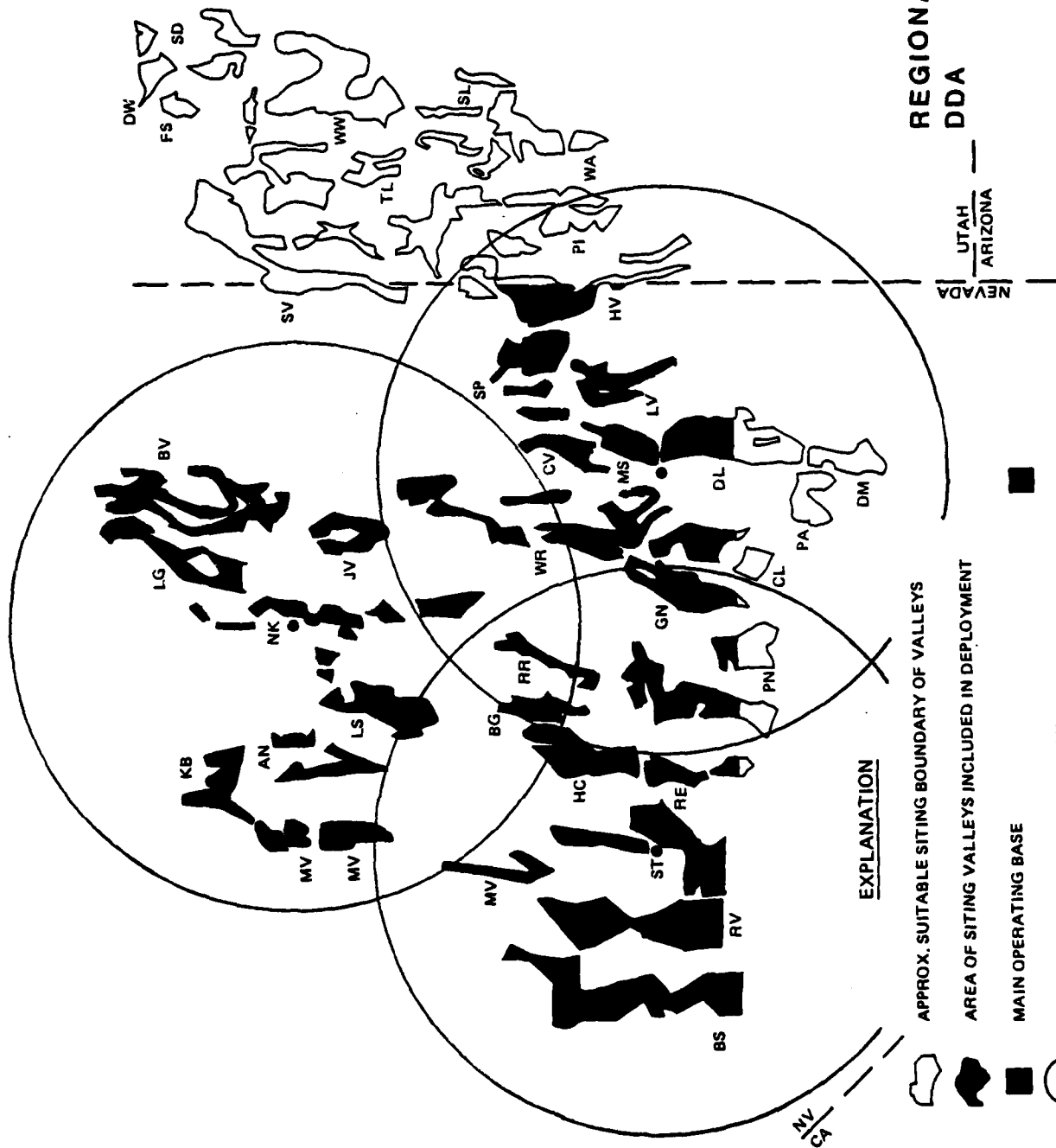
EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

- A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 13-3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas,
Nevada only

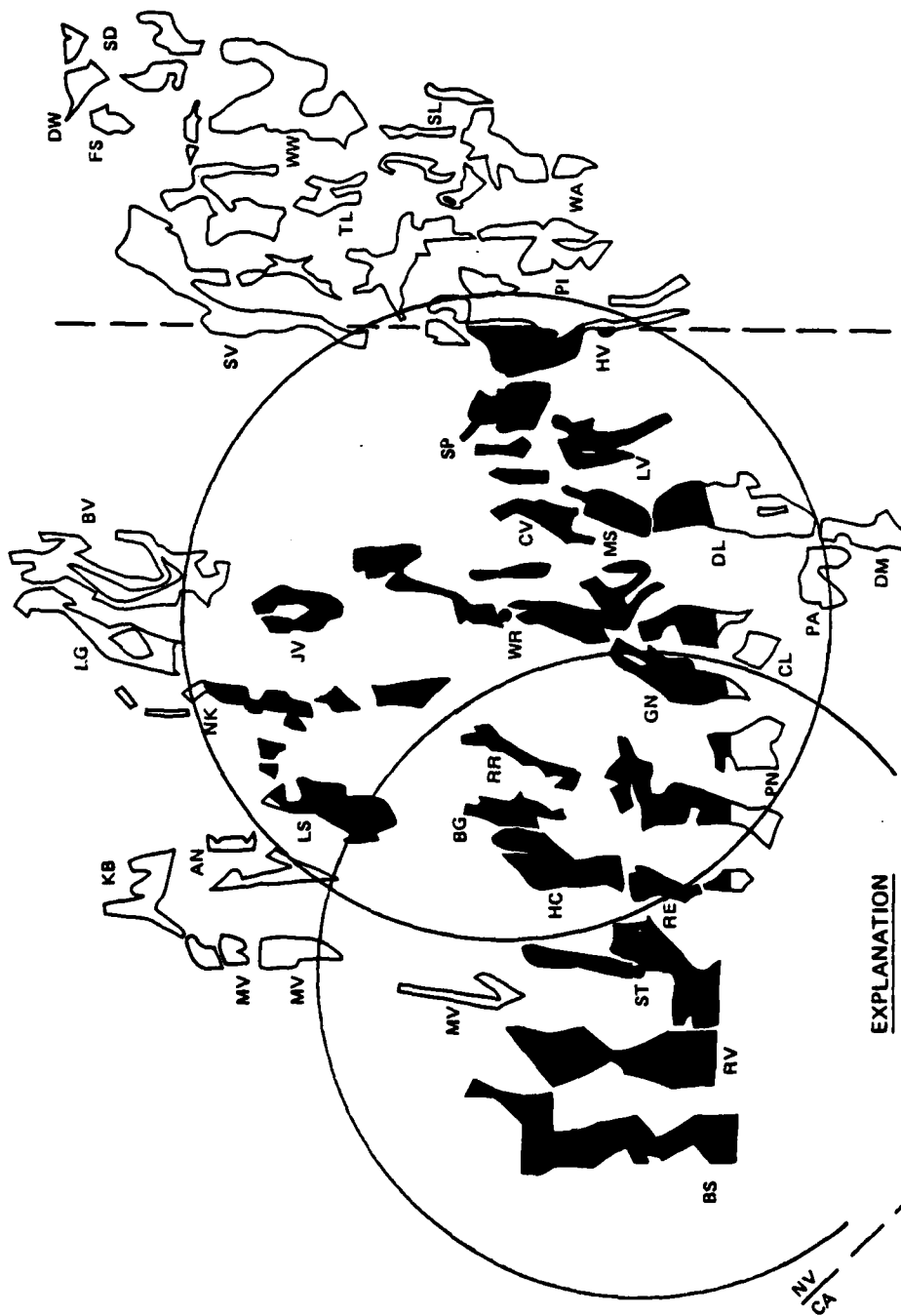
<u>VALLEY</u>	<u>ABRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	JV	89
Sevier Desert	SD		Kobeh	KR	150
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	195
Tule	TL		Long	LG	125
Wah Wah	WA		Monitor	MV	276
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	355
Butte	BV	293	Ralston	RV	312
Cave	CV	79	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	95	White River	WR	398
Garden	GN	110			
			TOTAL SHELTERS		4601
			TOTAL VALLEYS		25
			TOTAL ASCs		3



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

13-3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas,
Nevada only

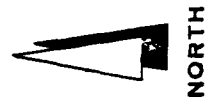
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	250
Pine	PI		Jakes	JV	134
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	280
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	200
Big Sand Springs	BG	105	Penoyer	PN	52
Big Smoky	BS	645	Railroad	RR	532
Butte	BV		Ralston	RV	468
Cave	CV	118	Reveille	RE	110
Coal	CL	172	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	496
Dry Lake	DL	142	White River	WR	597
Garden	GN	165			
			TOTAL SHELTERS		5368
			TOTAL VALLEYS		20
			TOTAL ASCS		2



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



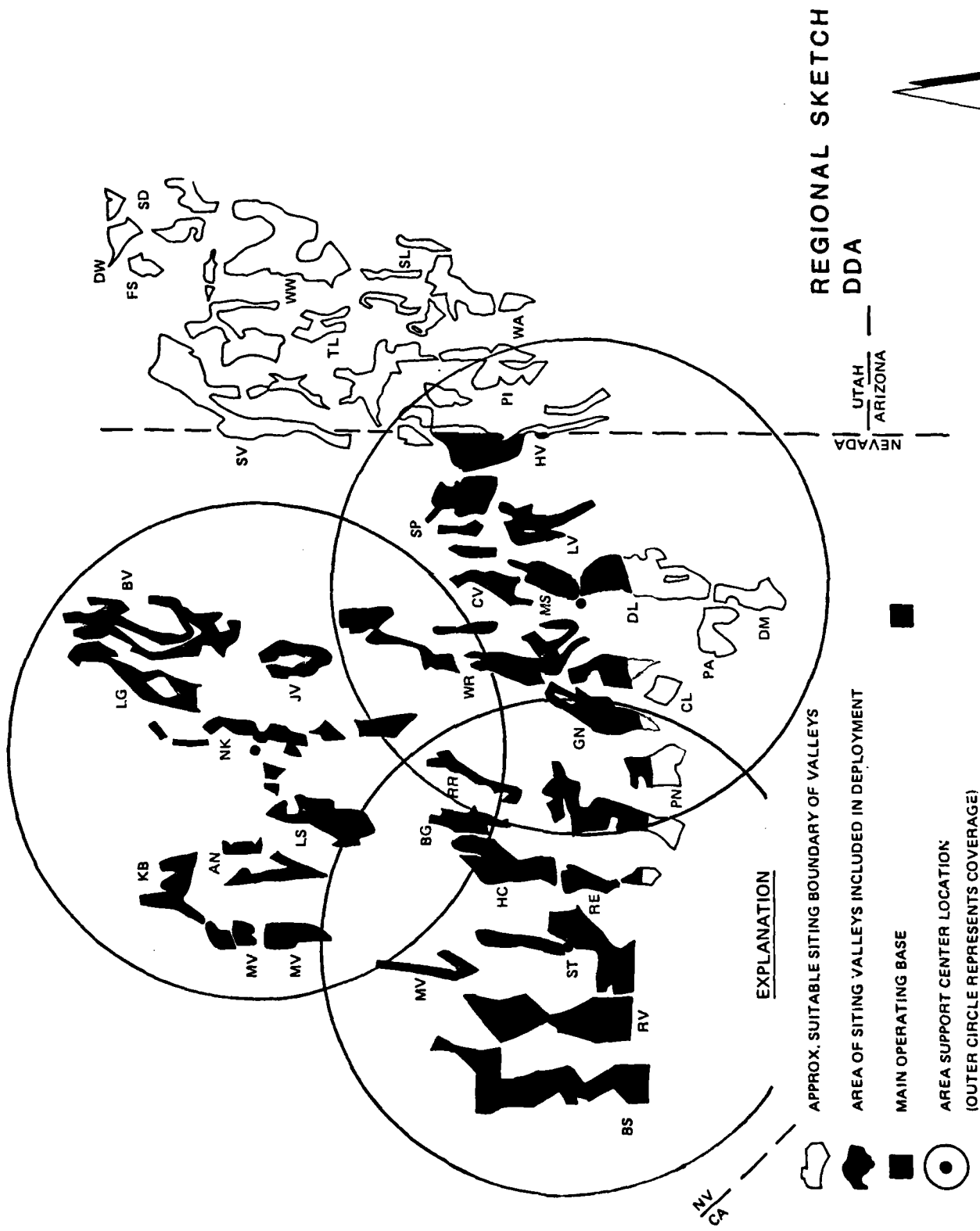
EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)
- (NOT TO SCALE)
(ABOUT 1:2,500,000)

C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

13-3) Rest 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas,
Nevada only

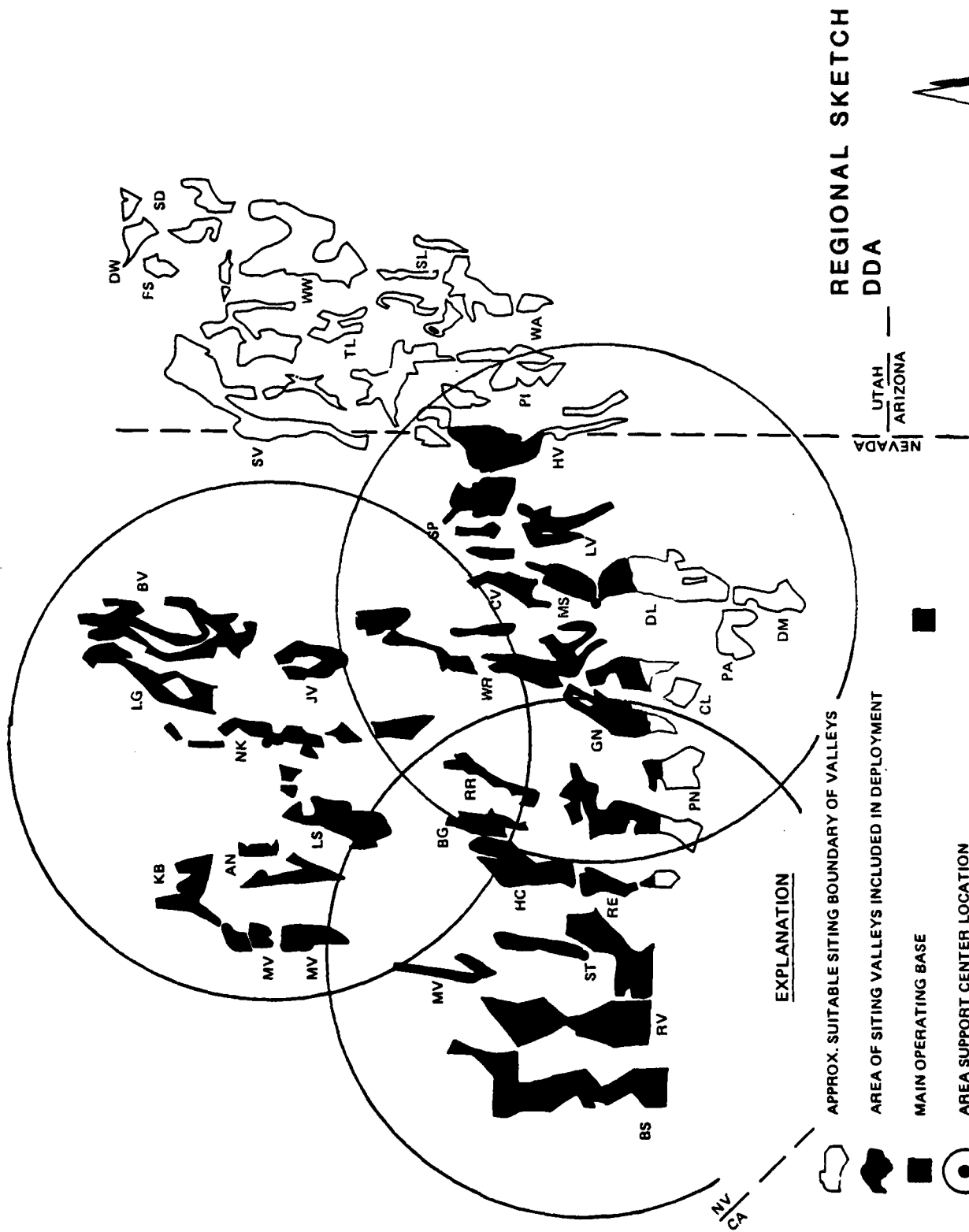
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	83
Sevier Desert	SD		Kobeh	KB	8
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	137
Tule	TL		Long	LG	80
Wah Wah	WA		Monitor	MV	83
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	59
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	89	White River	WR	191
Garden	GN	86			
			TOTAL SHELTERS		2747
			TOTAL VALLEYS		25
			TOTAL ASCs		3



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

13-3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Duqway	DW		Hamlin	HV	174
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI		Jakes	JV	124
Sevier Desert	SD		Kobeh	KB	12
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	206
Tule	TL		Long	LG	120
Wah Wah	WA		Monitor	MV	124
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN	76	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	36
Big Smoky	BS	284	Railroad	RR	320
Butte	BV	396	Ralston	RV	384
Cave	CV	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	230
Dry Lake	DL	134	White River	WR	286
Garden	GN	129			
			TOTAL SHELTERS		4120
			TOTAL VALLEYS		25
			TOTAL ASCs		3



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

NEVADA —
UTAH —
ARIZONA —
DDA

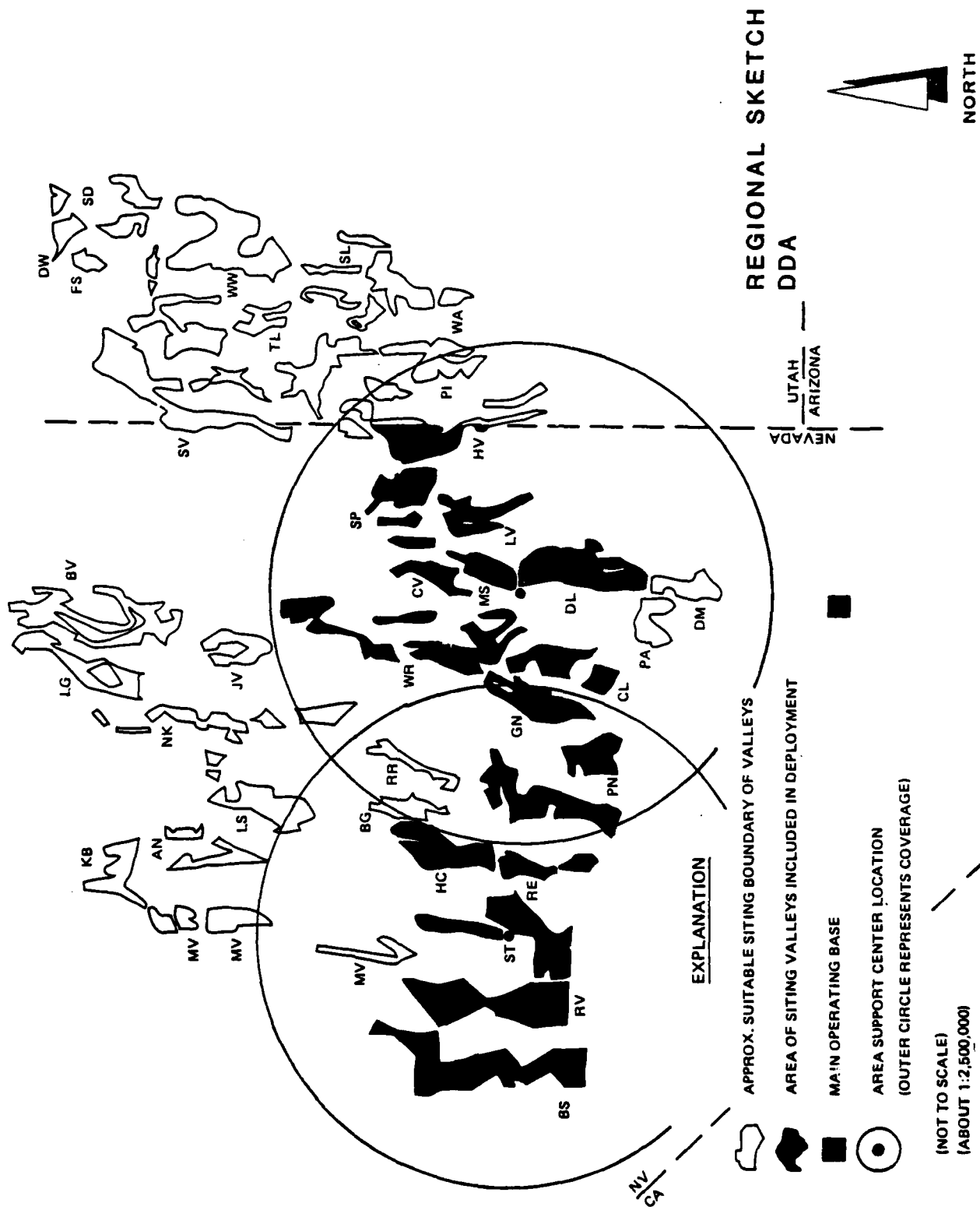


- A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 13-5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	JV	89
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	195
Tule	TL		Long	LG	125
Wah Wah	WA		Monitor	MV	276
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	212
Big Smoky	BS	430	Railroad	RR	455
Butte	BV	293	Ralston	RV	312
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	398
Garden	GN	161			
			TOTAL SHELTERS		5240
			TOTAL VALLEYS		25
			TOTAL ASCs		3

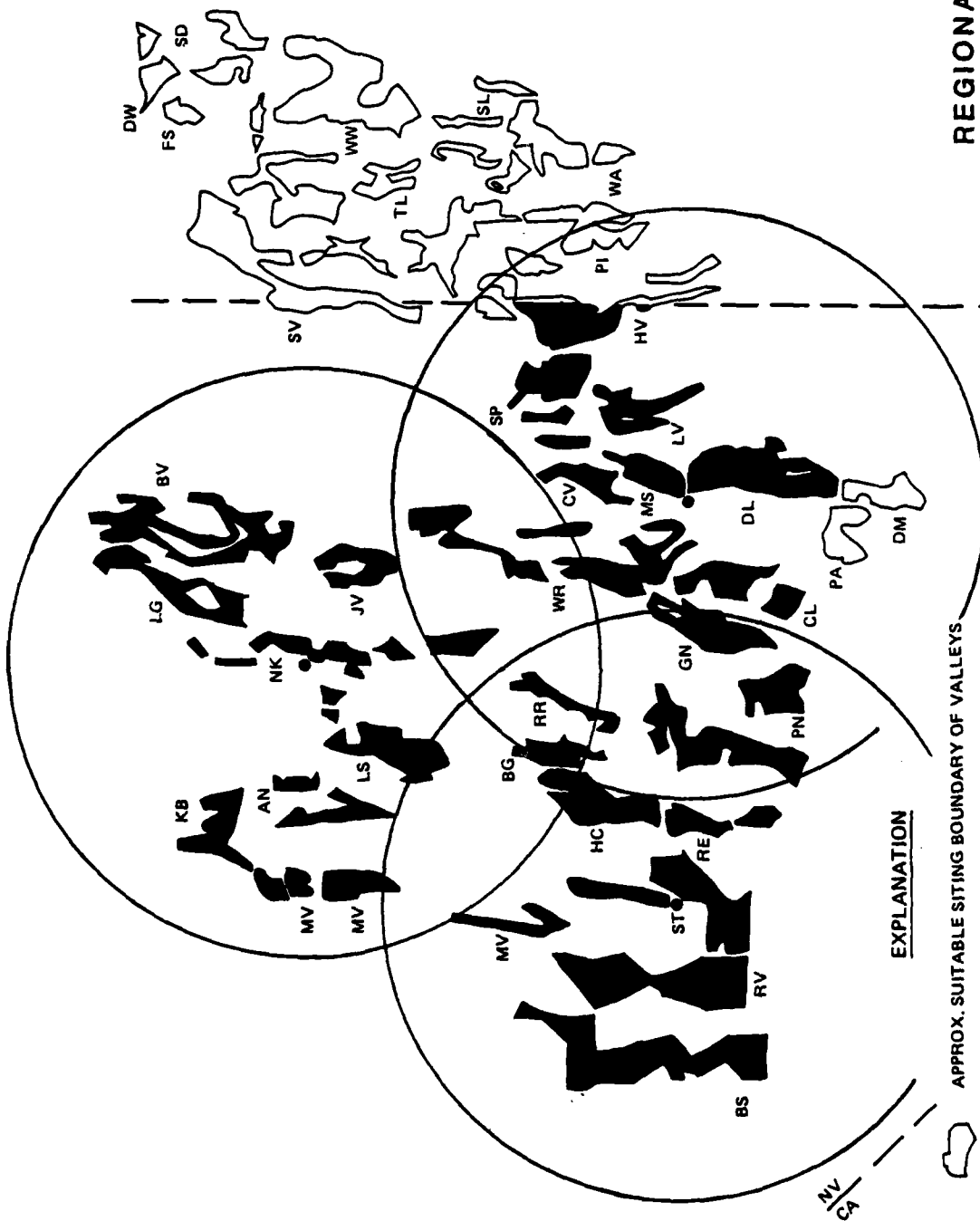
- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 13-5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys,
Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	250
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS	645	Railroad	RR	410
Butte	BV		Ralston	RV	468
Cave	CV	118	Reveille	RE	136
Coal	CL	328	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	496
Dry Lake	DL	426	White River	WR	597
Garden	GN	242			
			TOTAL SHELTERS		5336
			TOTAL VALLEYS		16
			TOTAL ASCs		2



- C) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 13-5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys,
Nevada only

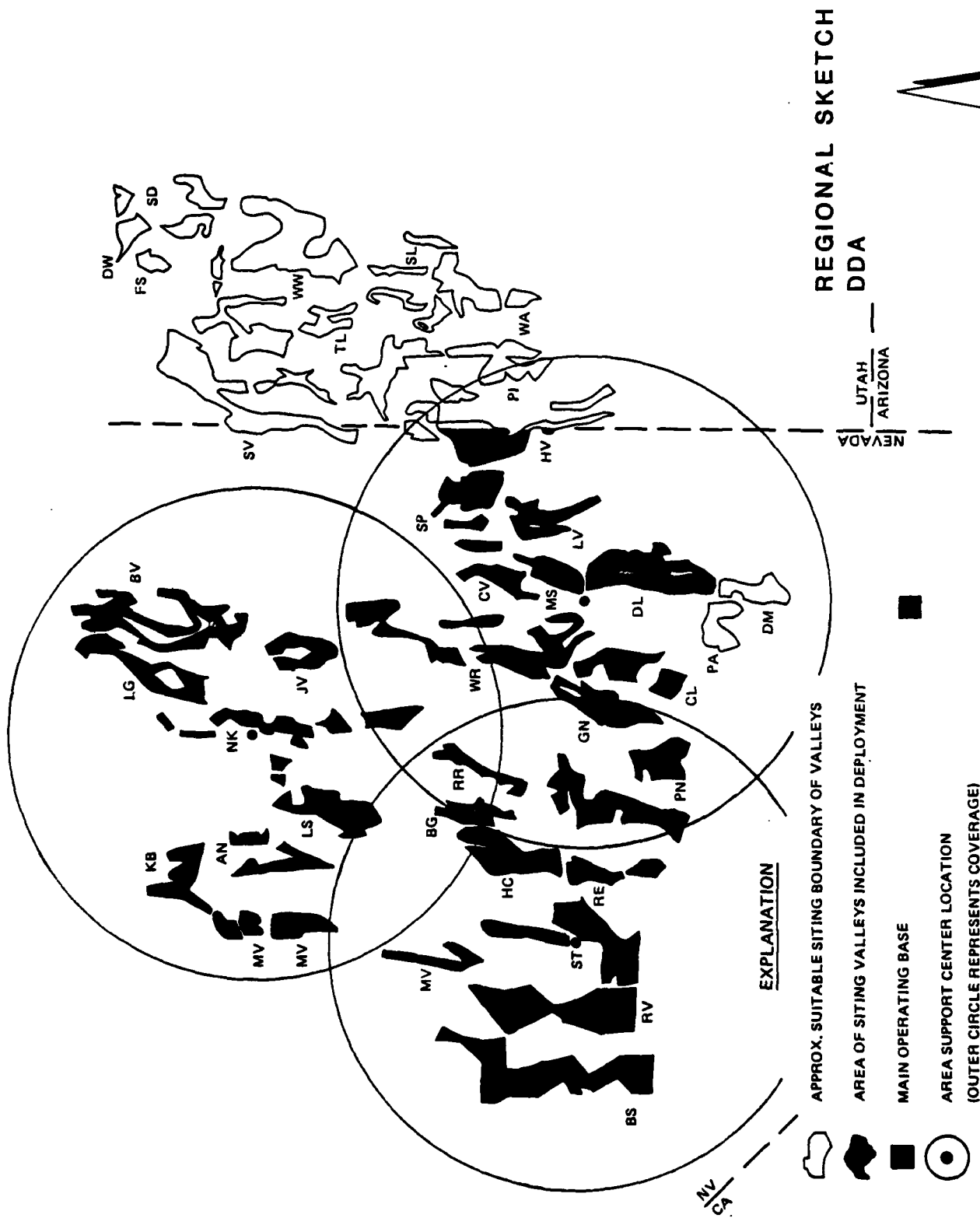
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	83
Sevier Desert	SD		Kobeh	KB	8
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	137
Tule	TL		Long	LG	80
Wah Wah	WA		Monitor	MV	83
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		3257
			TOTAL VALLEYS		25
			TOTAL ASCs		3



D) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

13-5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys,
Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	174
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI		Jakes	JV	124
Sevier Desert	SD		Kobeh	KB	12
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	206
Tule	TL		Long	LG	120
Wah Wah	WA		Monitor	MV	124
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN	76	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	219
Big Smoky	BS	284	Railroad	RR	410
Butte	BV	396	Ralston	RV	384
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	400	White River	WR	286
Garden	GN	189			
			TOTAL SHELTERS		4885
			TOTAL VALLEYS		25
			TOTAL ASCs		3



3.0 2300 SHELTER OPTIONS

2

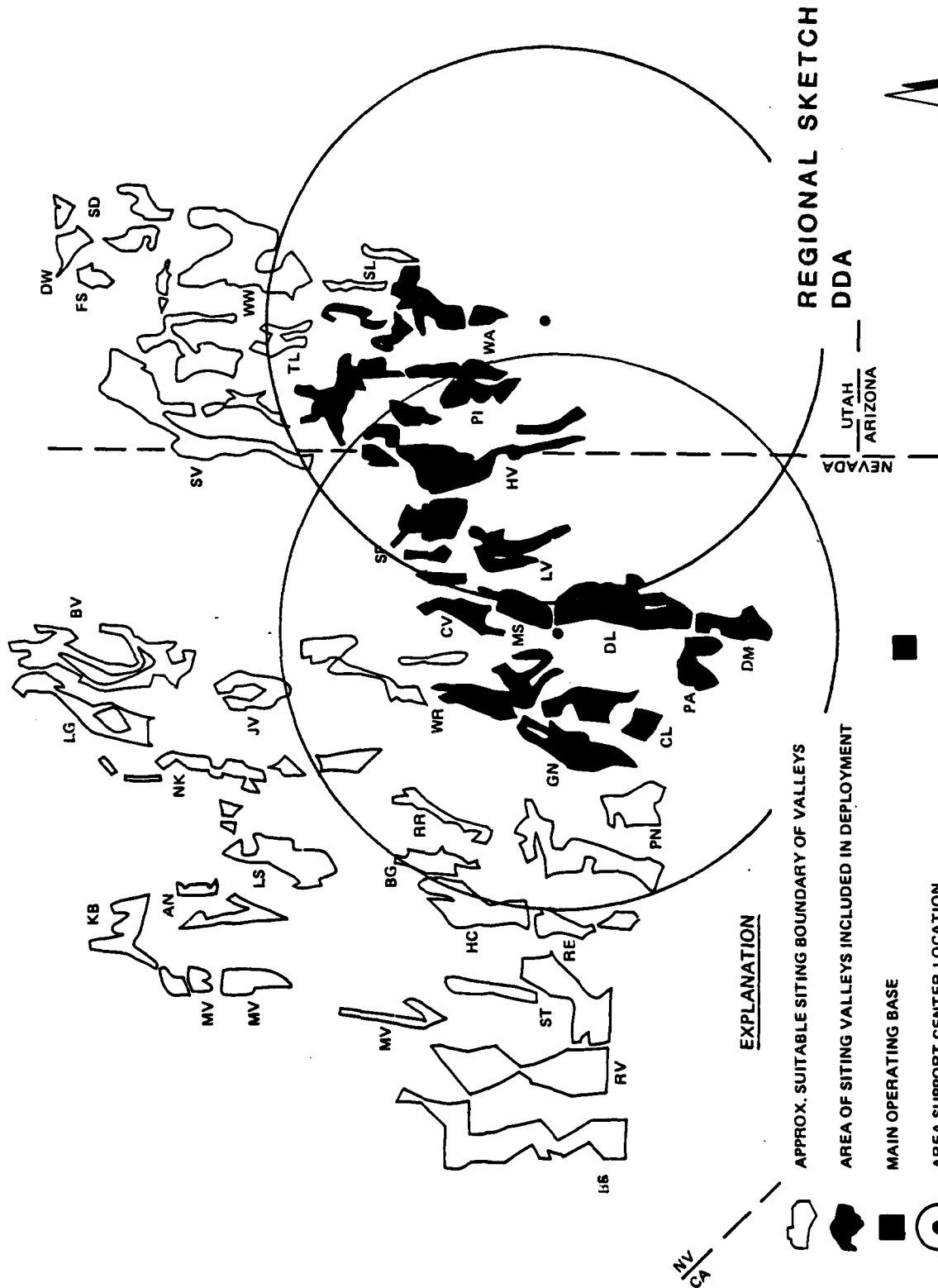
3.0 2300 SHELTER OPTIONS

This section contains options for 2300 shelters as specified in Section 1.1.

A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

7) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC

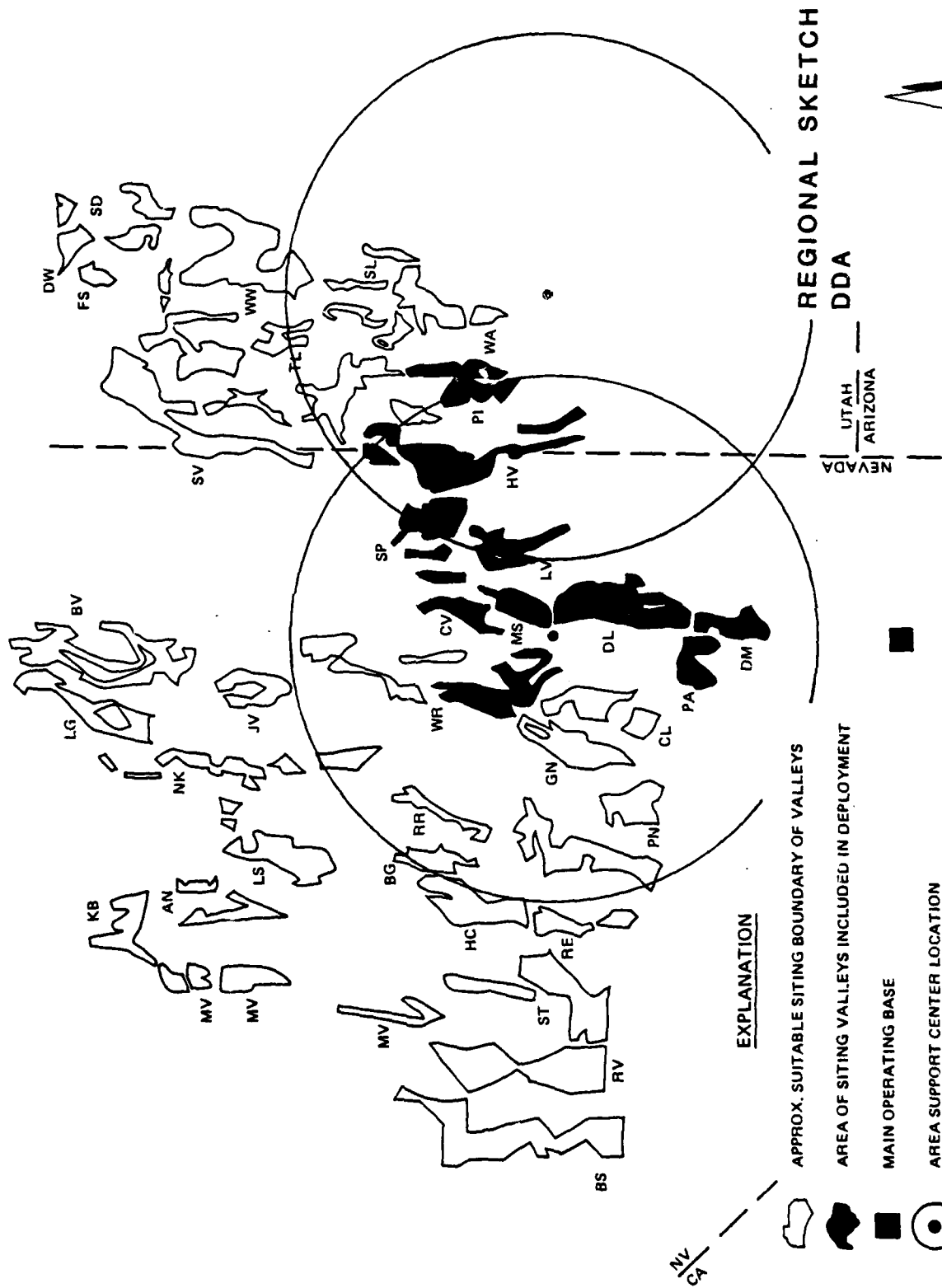
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV	247	Little Smoky	LS	
Tule	TL	77	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM	170	Stone Cabin	ST	
Dry Lake	DL	284	White River	WR	265
Garden	GN	161			
			TOTAL SHELTERS		2690
			TOTAL VALLEYS		14
			TOTAL ASCS		2



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

7) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	500
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL		Spring	SP	182
Delamar/Pahroc	DM	255	Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		2661
			TOTAL VALLEYS		9
			TOTAL ASCs		2



AD-A113 150

FUSRO NATIONAL INC LONG BEACH CA

F/C 16/1

NK SITING INVESTIGATION. REGIONAL STUDIES FOR VALLEY CLUSTERING--ETC(U)
 AND 81 F04704-00-C-0000

AUG 81

F04704-00-C-0006

FN-81-AUG-1

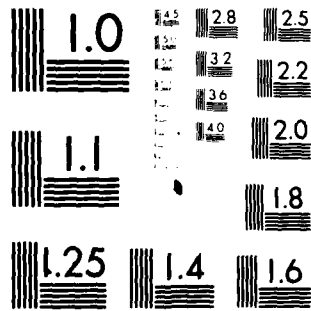
44

UNCLASSIFIED

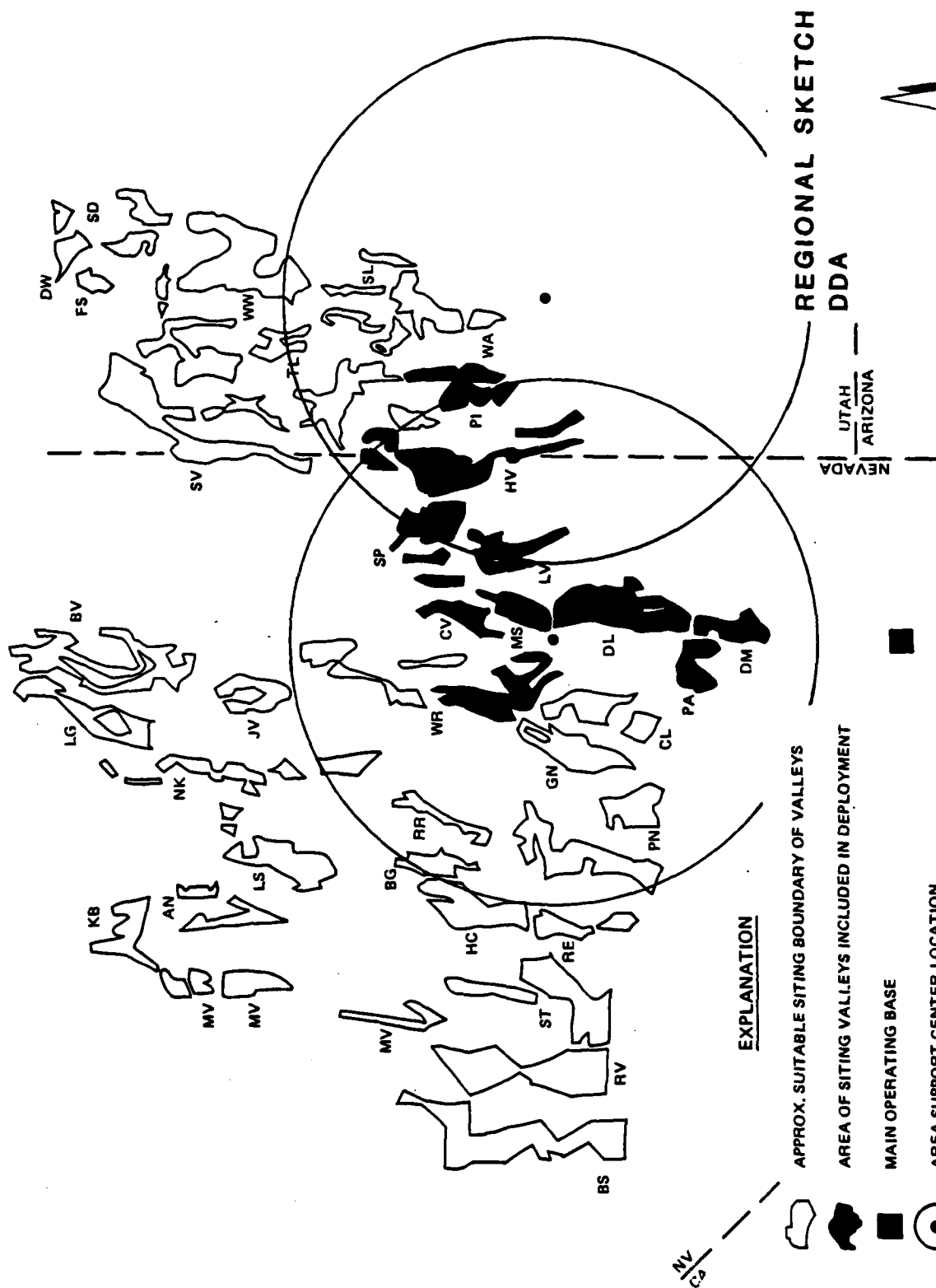
2nd 3

 $\Delta_{\text{H}_2\text{O}}^{\text{H}_2\text{O}}$

13150



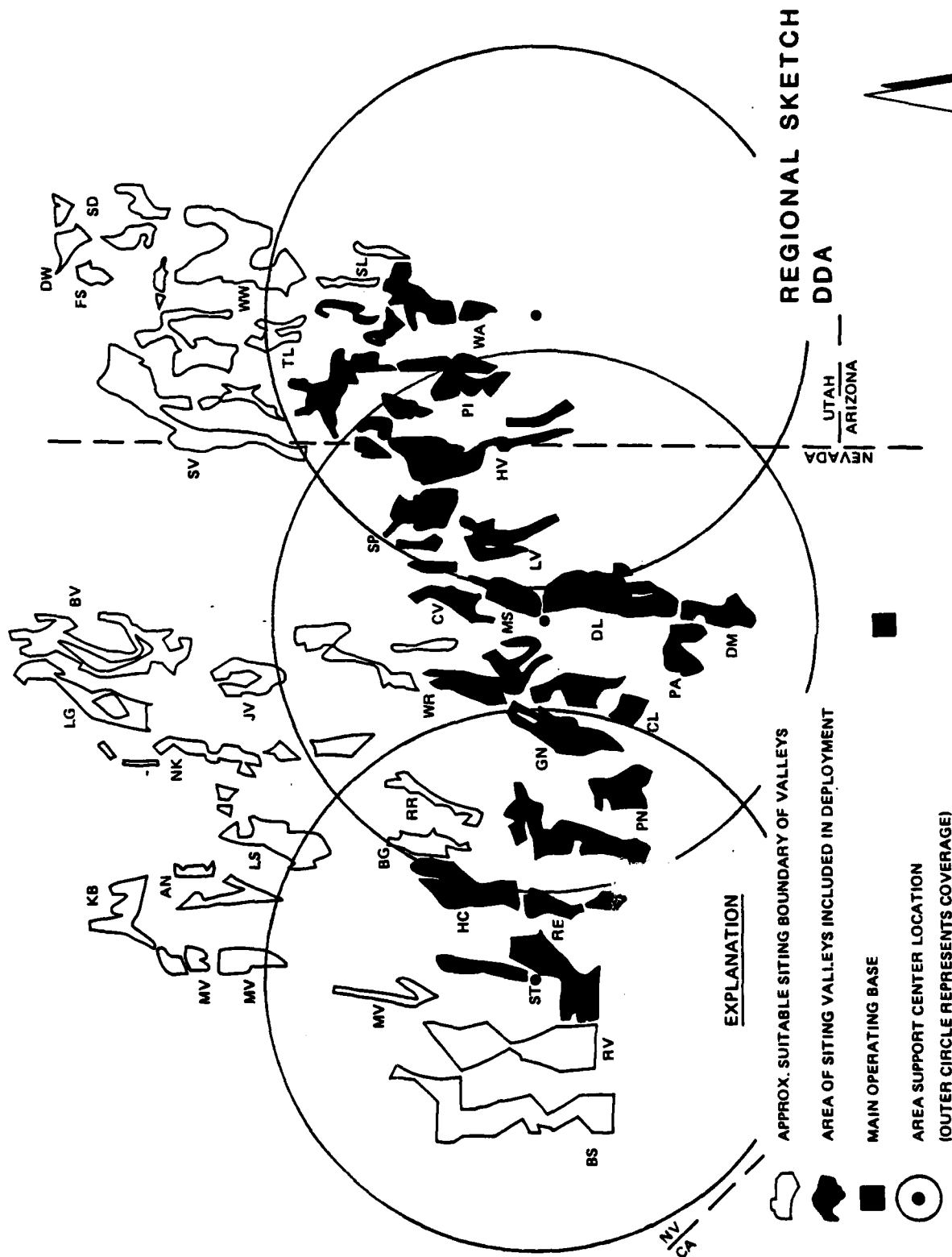
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

7) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC

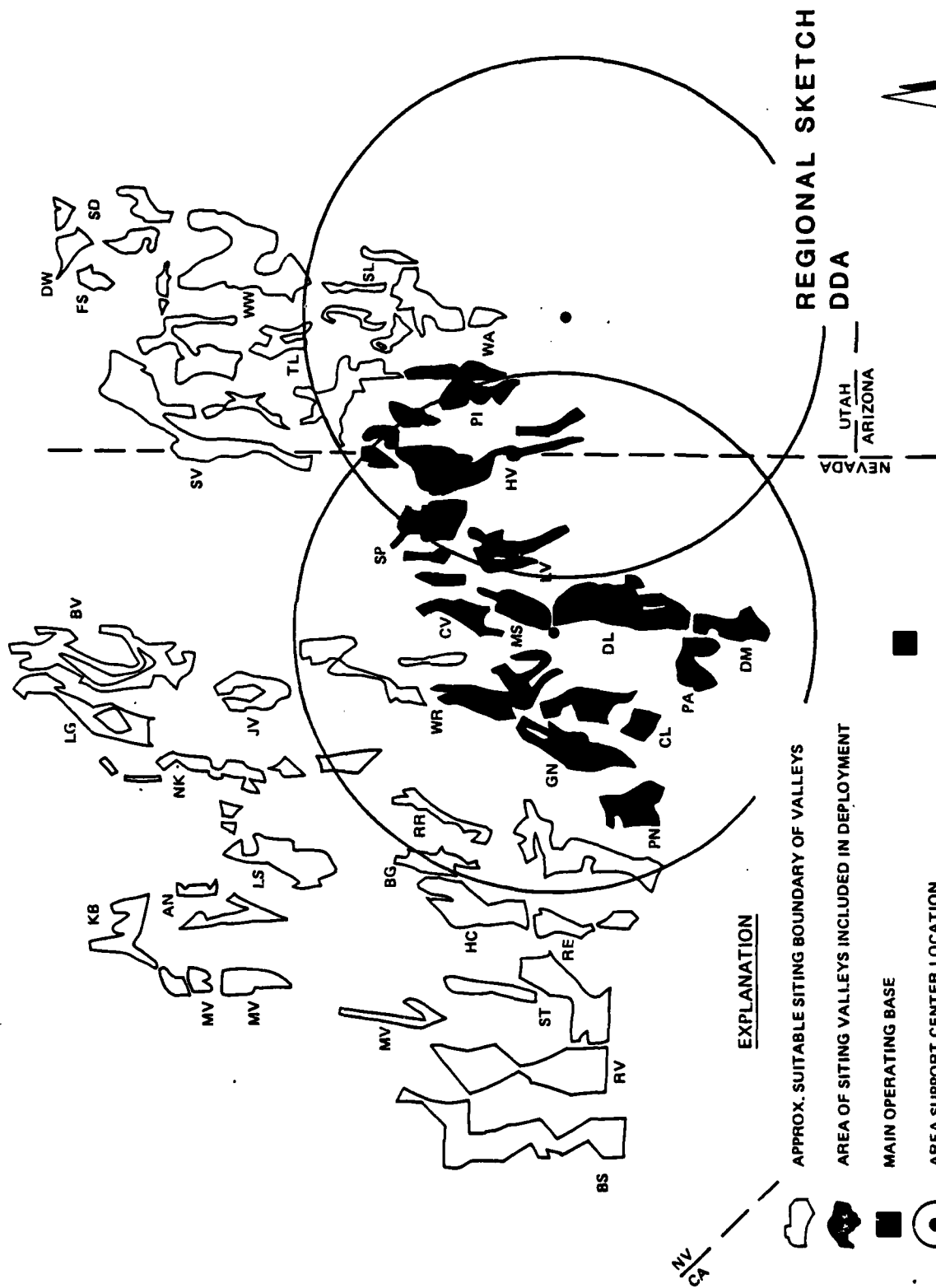
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	186
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV	148	Little Smoky	LS	
Tule	TL	42	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	164
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		2633
			TOTAL VALLEYS		19
			TOTAL ASCs		3



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

7) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC

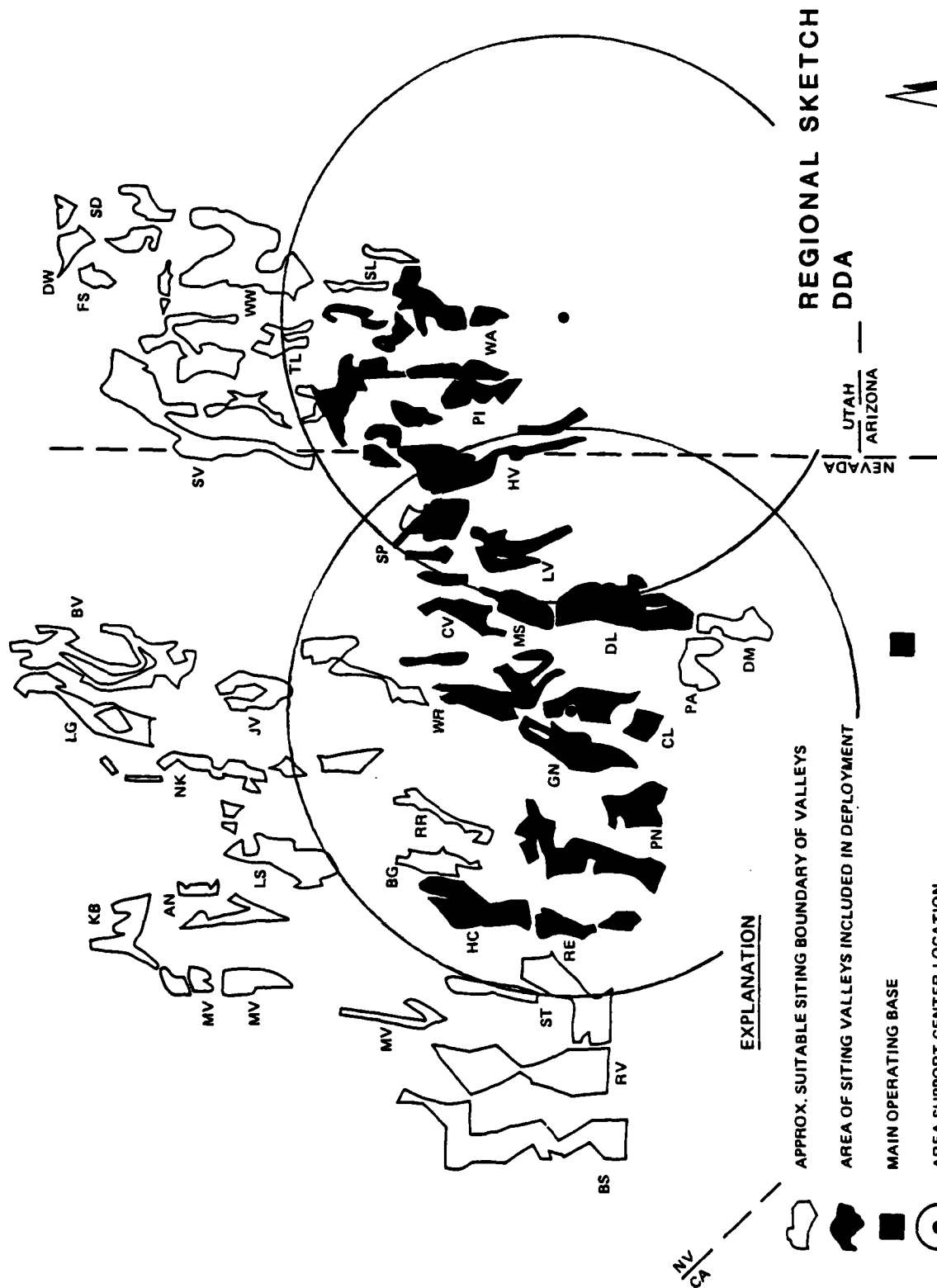
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV	49	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM	207	Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		2650
			TOTAL VALLEYS		13
			TOTAL ASCs		2



E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

7) Best 2300 shelters - Coyote MOB, Milford ASC

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	230
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	PI	115	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	161
Snake	SV	92	Little Smoky	LS	
Tule	TL	46	Long	LG	
Wah Wah	WA	115	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	115
Big Smoky	BS		Railroad	RR	184
Butte	BV		Ralston	RV	
Cave	CV	69	Reveille	RE	69
Coal	CL	138	Spring	SP	92
Delamar/Pahroc	DM	138	Stone Cabin	ST	
Dry Lake	DL	230	White River	WR	207
Garden	GN	138			
			TOTAL SHELTERS		2346
			TOTAL VALLEYS		18
			TOTAL ASCs		2



EXPLANATION

APPROX. SUITABLE SITING BOUNDARY OF VALLEYS

AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT

MAIN OPERATING BASE

AREA SUPPORT CENTER LOCATION

(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

DDA

UTAH
ARIZONA

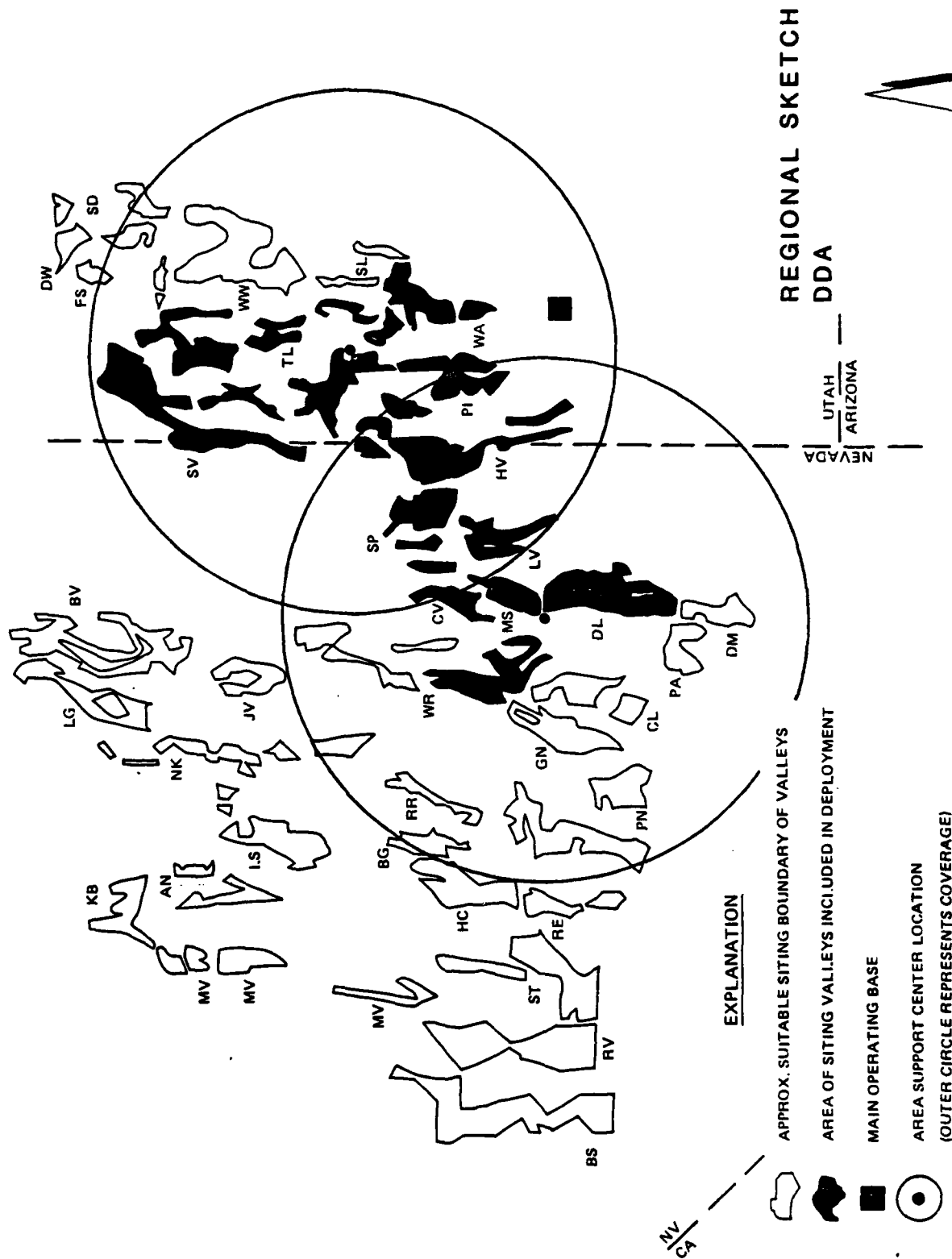
NEVADA



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

8) Best 2300 shelters and 15 percent - Milford MOB

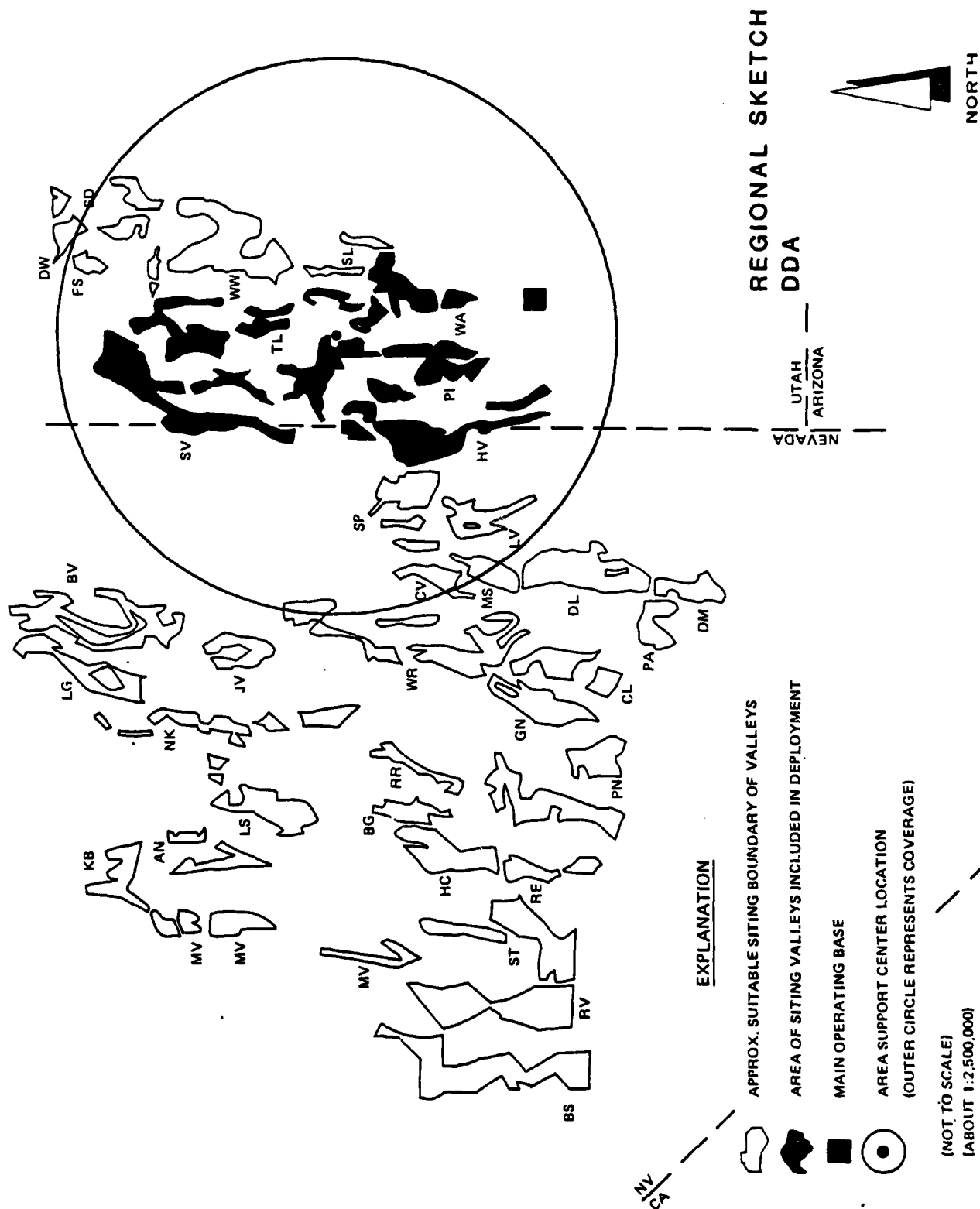
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	191
Sevier Lake	SL		Lake	LV	
Snake	SV	650	Little Smoky	LS	
Tule	TL	367	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	121
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	284	White River	WR	265
Garden	GN				
			TOTAL SHELTERS		2833
			TOTAL VALLEYS		11
			TOTAL ASCs		2



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

8) Best 2300 shelters and 15 percent - Milford MOB

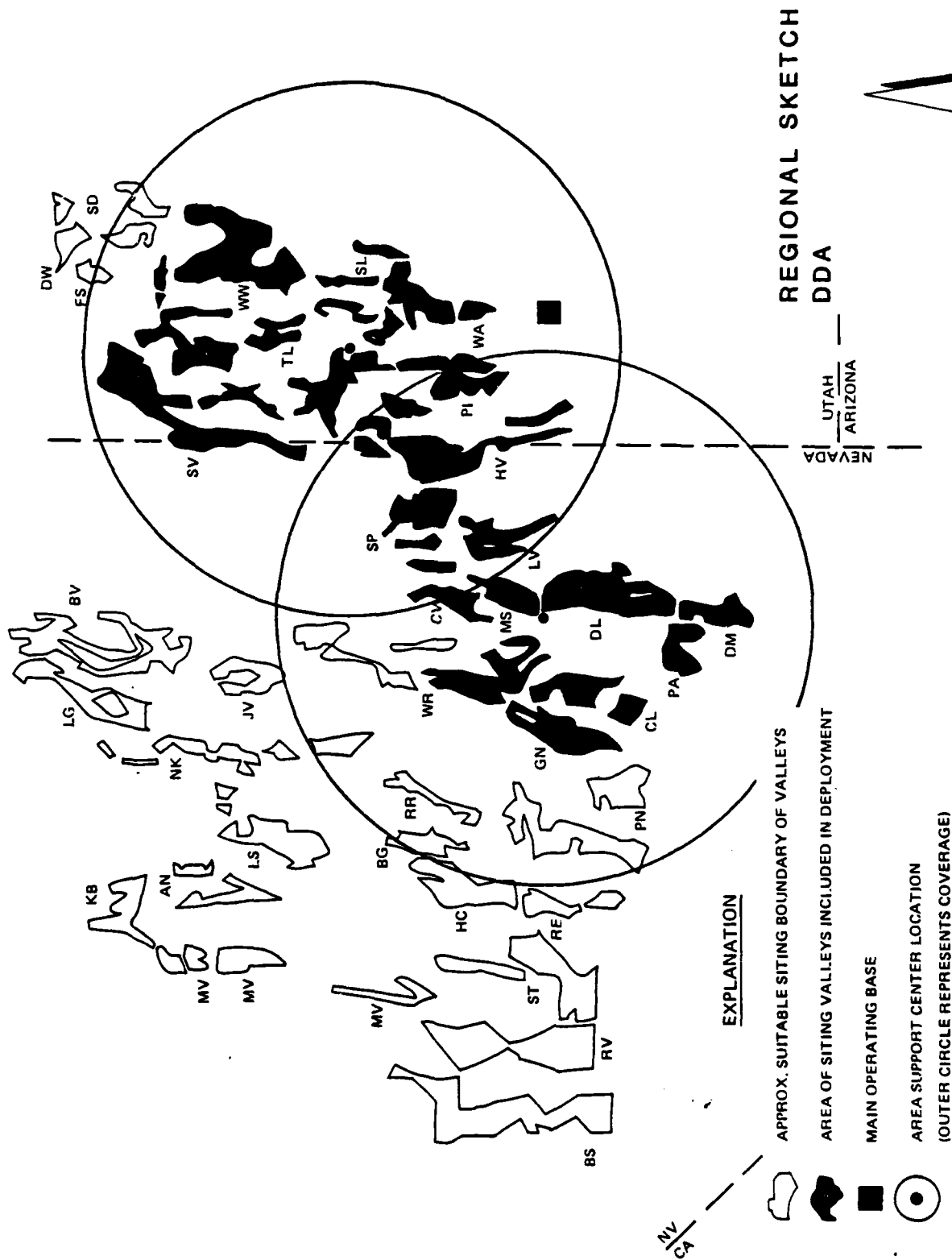
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dogway	DW		Hamlin	HV	500
Flat Springs	FS		Hot Creek	HC	
Flat	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Sevier	SV	975	Little Smoky	LS	
Tukey	TL	550	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		2719
			TOTAL VALLEYS		5
			TOTAL ASCs		1



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

8) Best 2300 shelters and 15 percent - Milford MOB

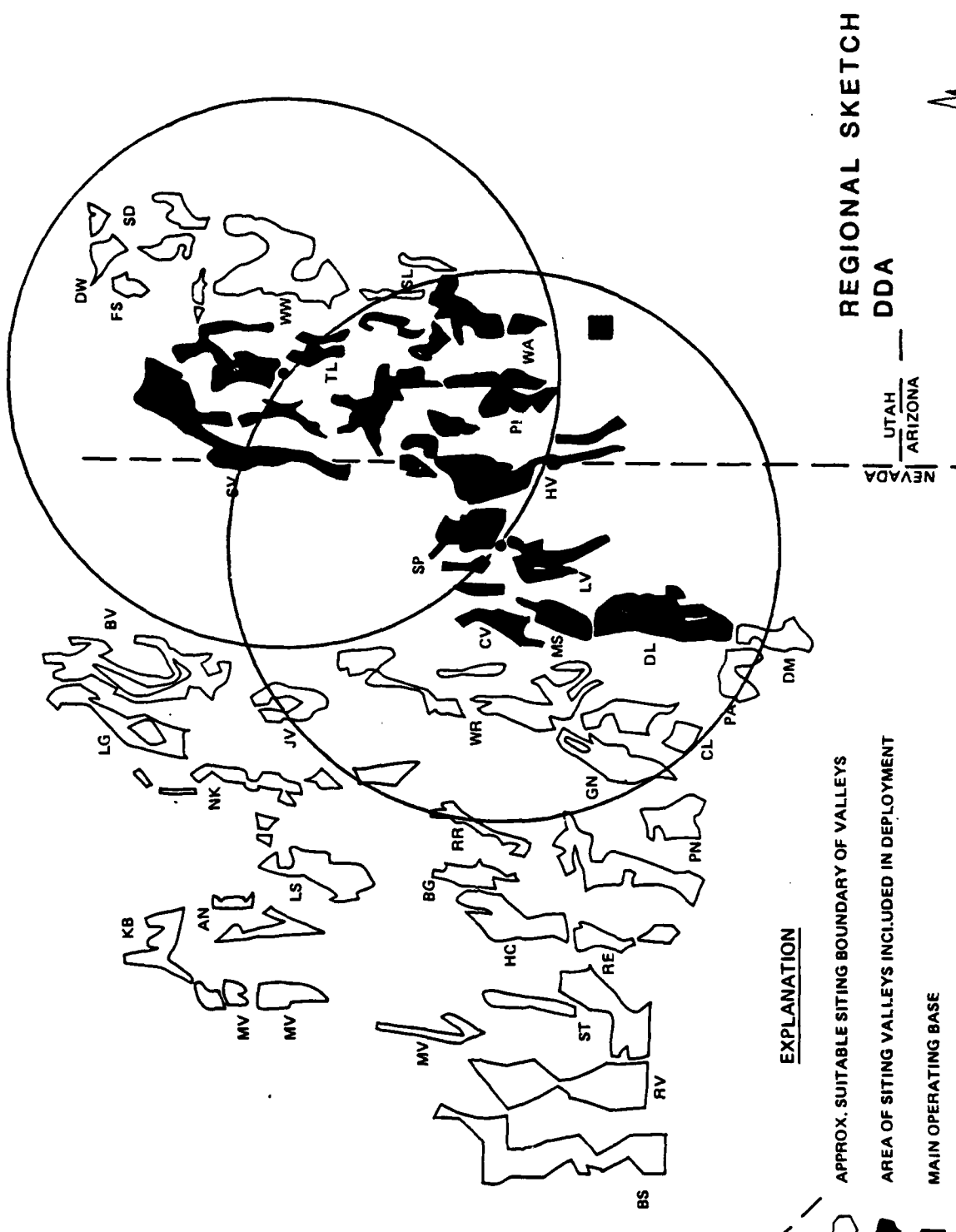
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	186
Fish Springs Flat	FS	23	Hot Creek	HC	
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	57	Lake	LV	94
Snake	SV	390	Little Smoky	LS	
Tule	TL	198	Long	LG	
Wah Wah	WA	175	Monitor	MV	
Whirlwind	WW	215	Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stone Cabin	ST	
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		2646
			TOTAL VALLEYS		17
			TOTAL ASCs		2



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

8) Best 2300 shelters and 15 percent - Milford MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	
Coal	CL		Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	
Garden	GN				
			TOTAL SHELTERS		2639
			TOTAL VALLEYS		10
			TOTAL ASCs		2



REGIONAL SKETCH

DDA
UTAH
ARIZONA
NEVADA



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

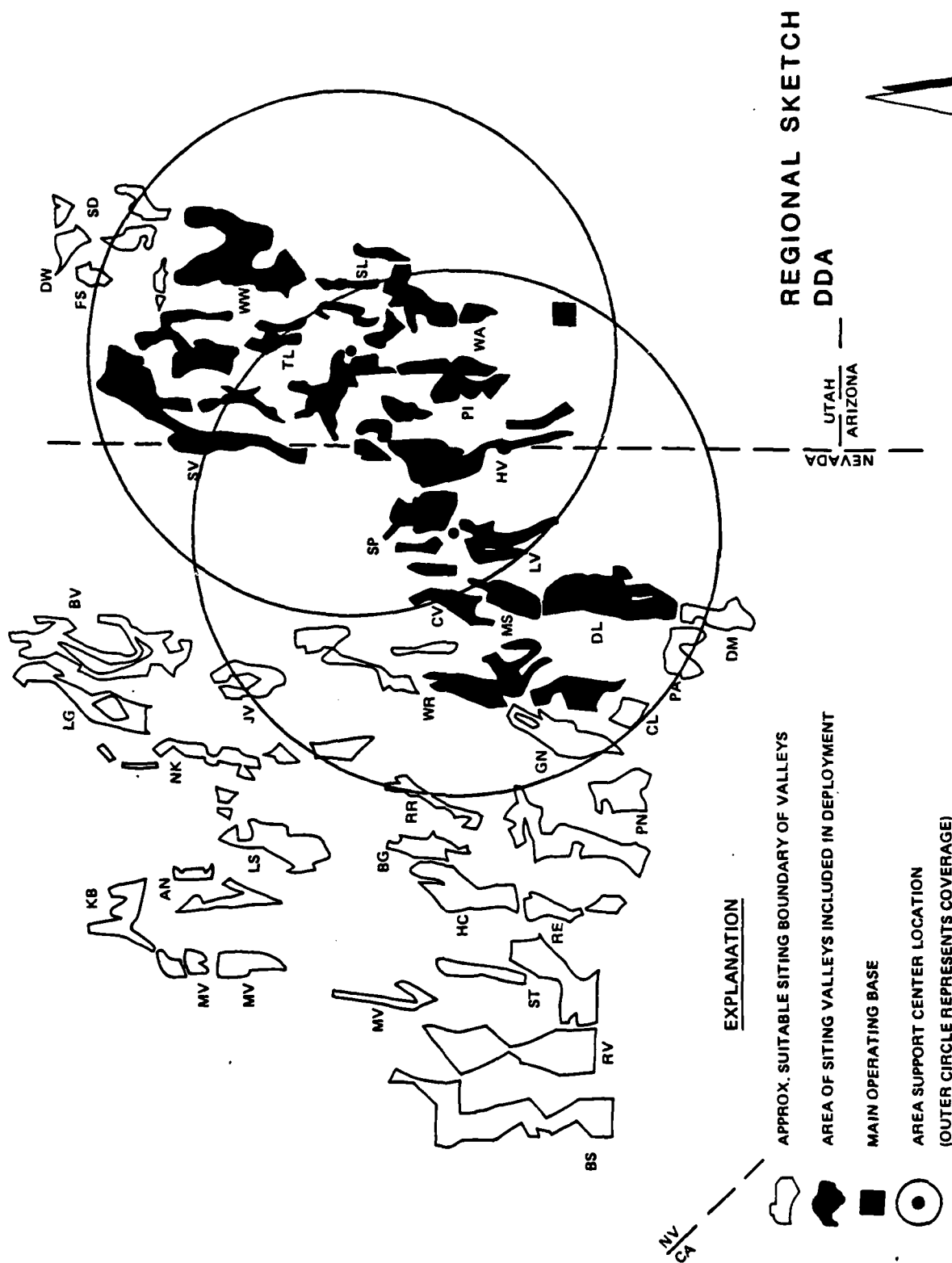
(NOT TO SCALE)
(ABOUT 1:2,500,000)

CA
NV

E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

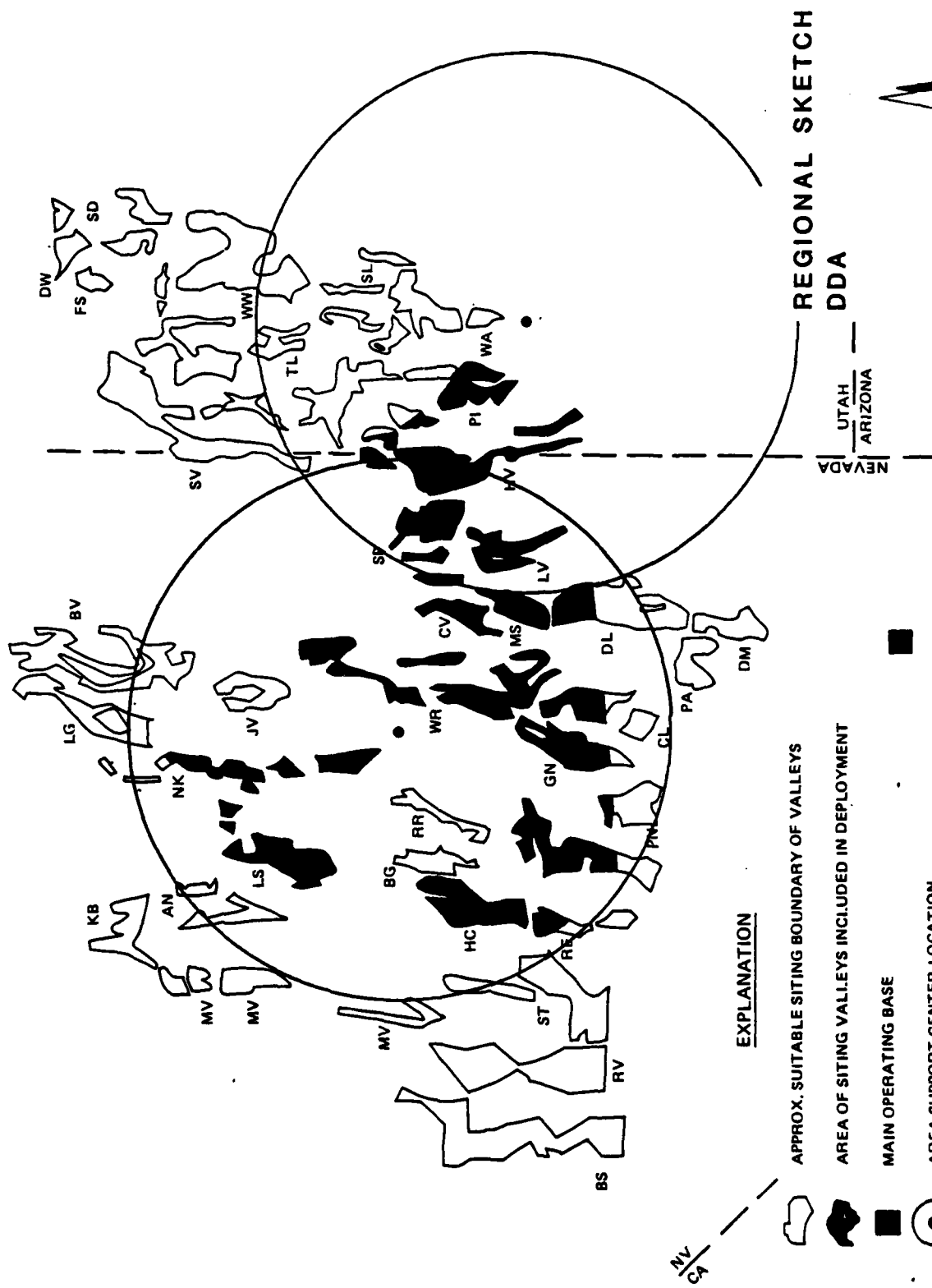
8) Best 2300 shelters - Milford MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	230
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	115	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	23	Lake	LV	161
Snake	SV	437	Little Smoky	LS	
Tule	TL	230	Long	LG	
Wah Wah	WA	115	Monitor	MV	
Whirlwind	WW	276	Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	69	Reveille	RE	92
Coal	CL	92	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	230	White River	WR	161
Garden	GN				
			TOTAL SHELTERS		2300
			TOTAL VALLEYS		14
			TOTAL ASCs		2



- A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 9) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas

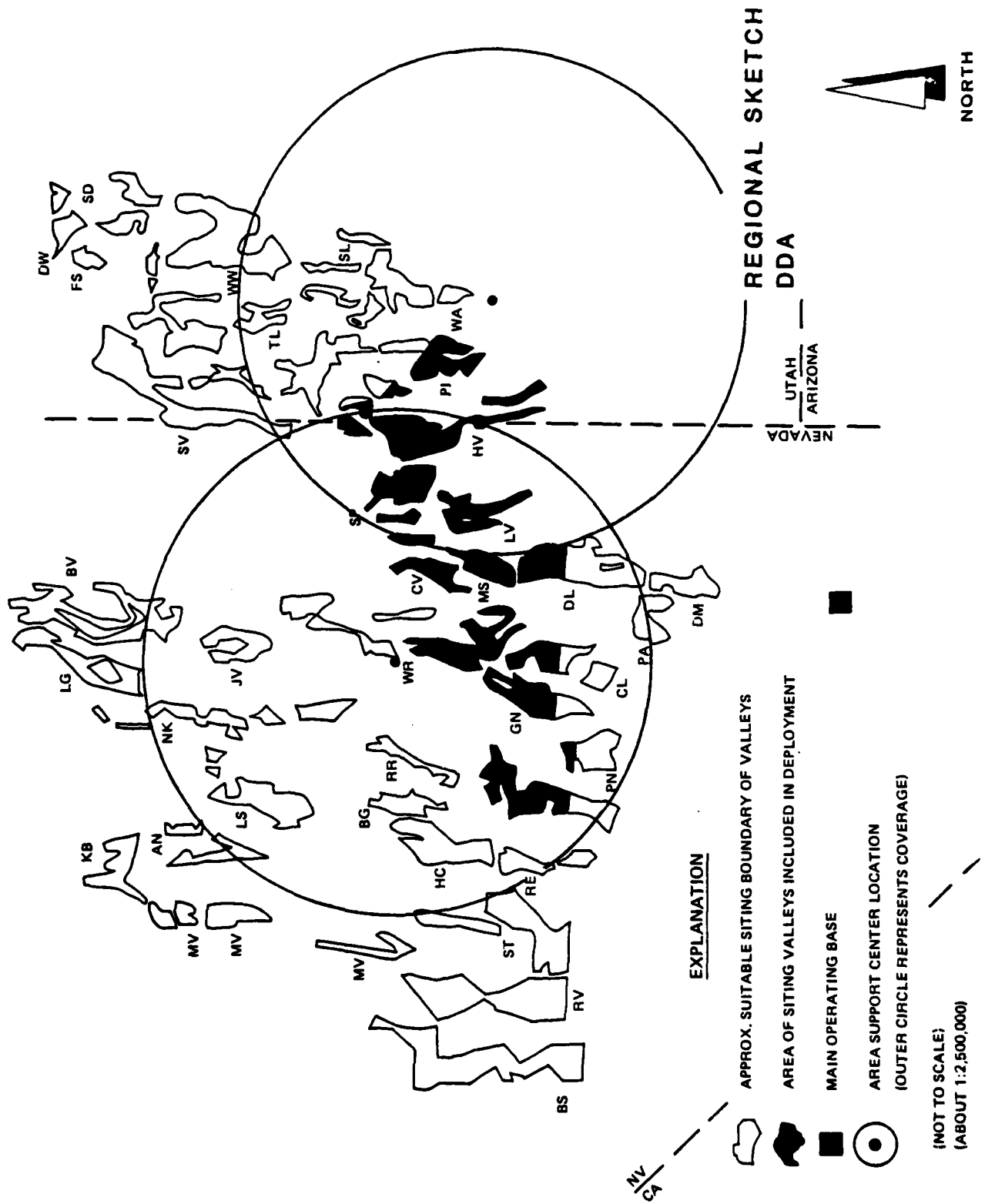
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	300
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	166	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV	26	Little Smoky	LS	195
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	165
Big Sand Springs	BG		Penoyer	PN	35
Big Smoky	BS		Railroad	RR	355
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	45
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	95	White River	WR	398
Garden	GN	110			
			TOTAL SHELTERS		2644
			TOTAL VALLEYS		17
			TOTAL ASCs		2



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

9) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas

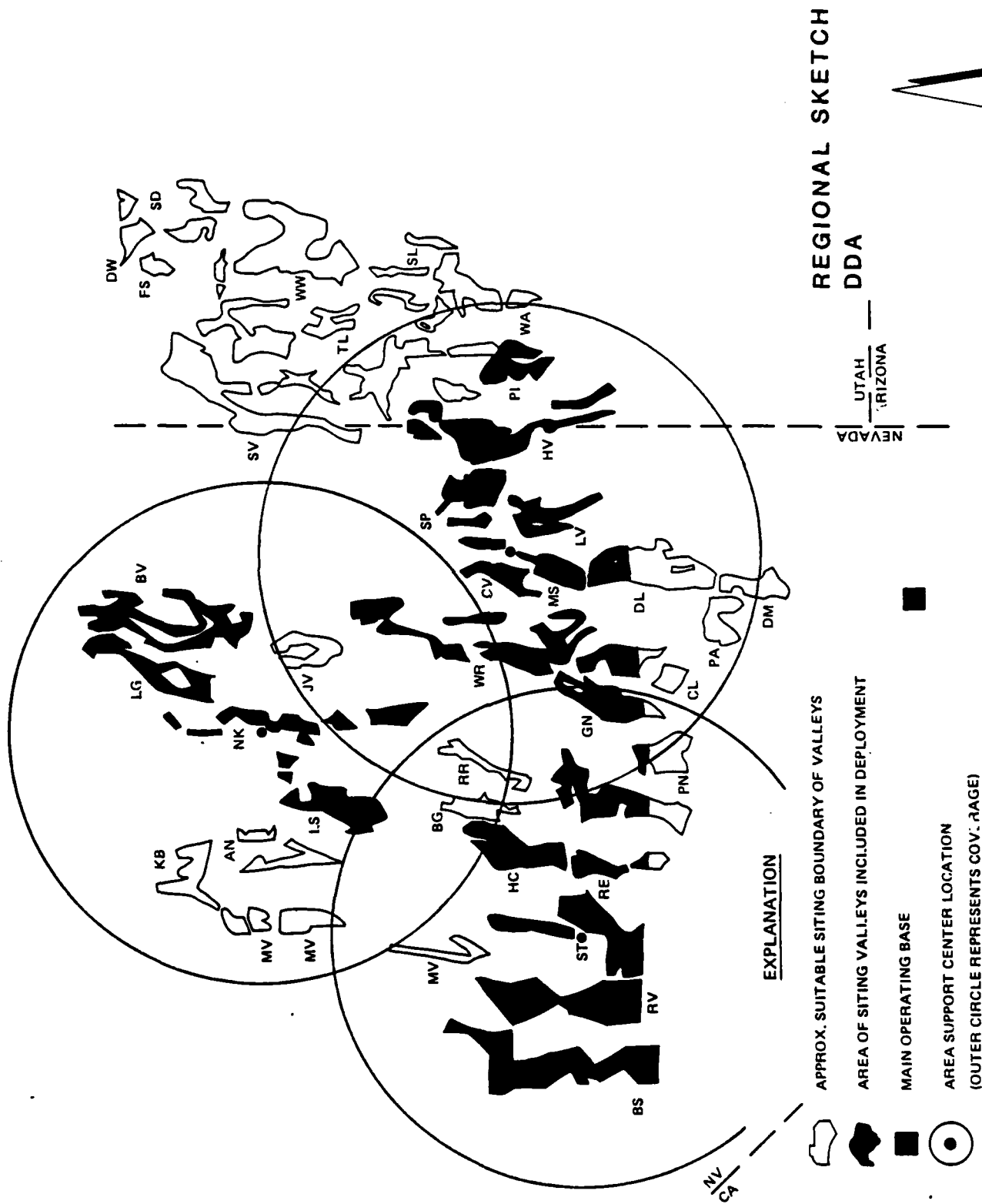
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	450
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	39	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	52
Big Smoky	BS		Railroad	RR	260
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	172	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	142	White River	WR	398
Garden	GN	165			
			TOTAL SHELTERS		2635
			TOTAL VALLEYS		13
			TOTAL ASCs		2



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

9) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas

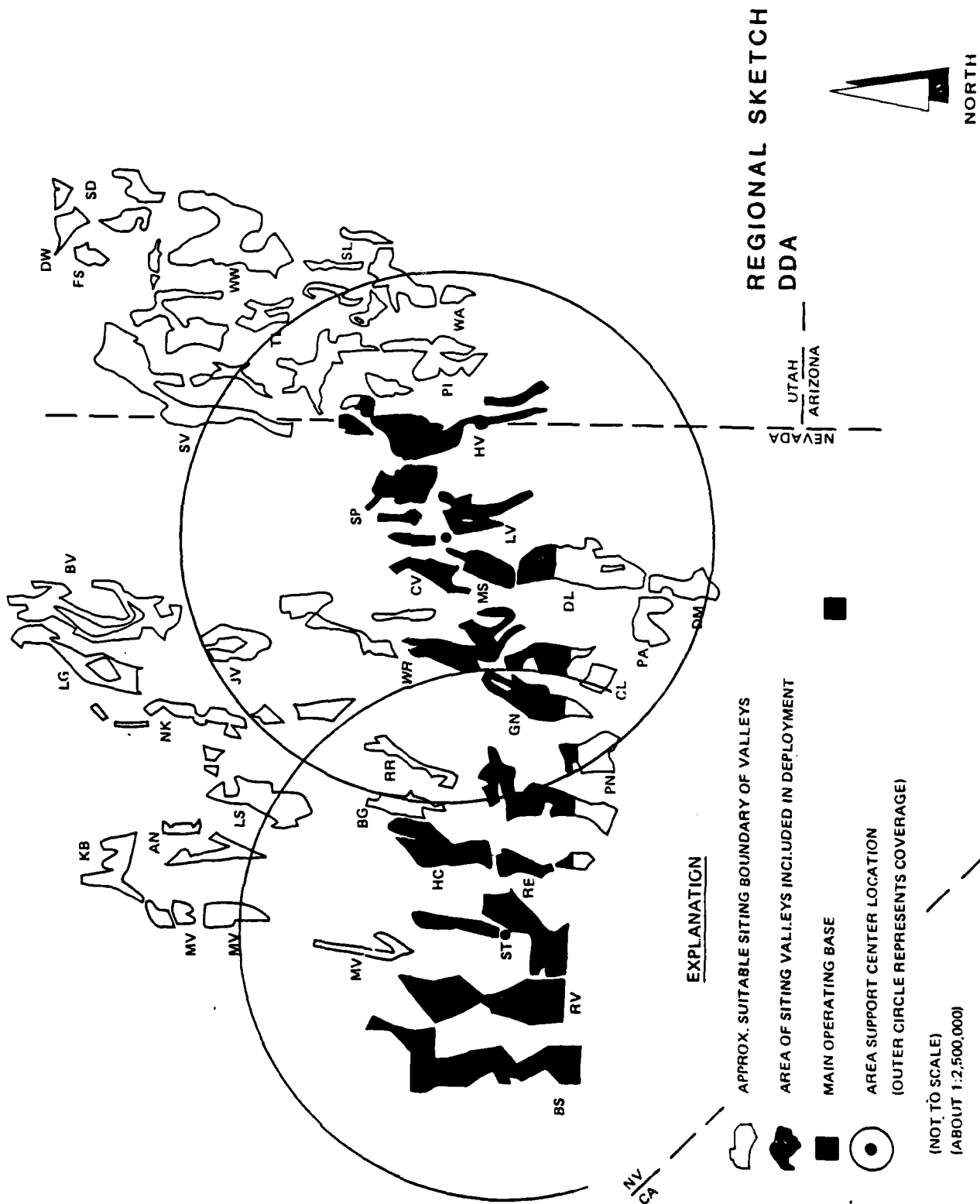
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	168
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI	161	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	94
Sevier Lake	SL		Lake	LV	137
Snake	SV		Little Smoky	LS	80
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	69
Whirlwind	WW		Muleshoe	MS	96
Antelope	AN		Newark	NK	24
Big Sand Springs	BG		Penoyer	PN	213
Big Smoky	BS	189	Railroad	RR	256
Butte	BV	264	Ralston	RV	59
Cave	CV	70	Reveille	RE	68
Coal	CL	106	Spring	SP	159
Delamar/Pahroc	DM		Stone Cabin	ST	191
Dry Lake	DL	89	White River	WR	
Garden	GN	86			
			TOTAL SHELTERS		2678
			TOTAL VALLEYS		21
			TOTAL ASCs		3



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

9) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas

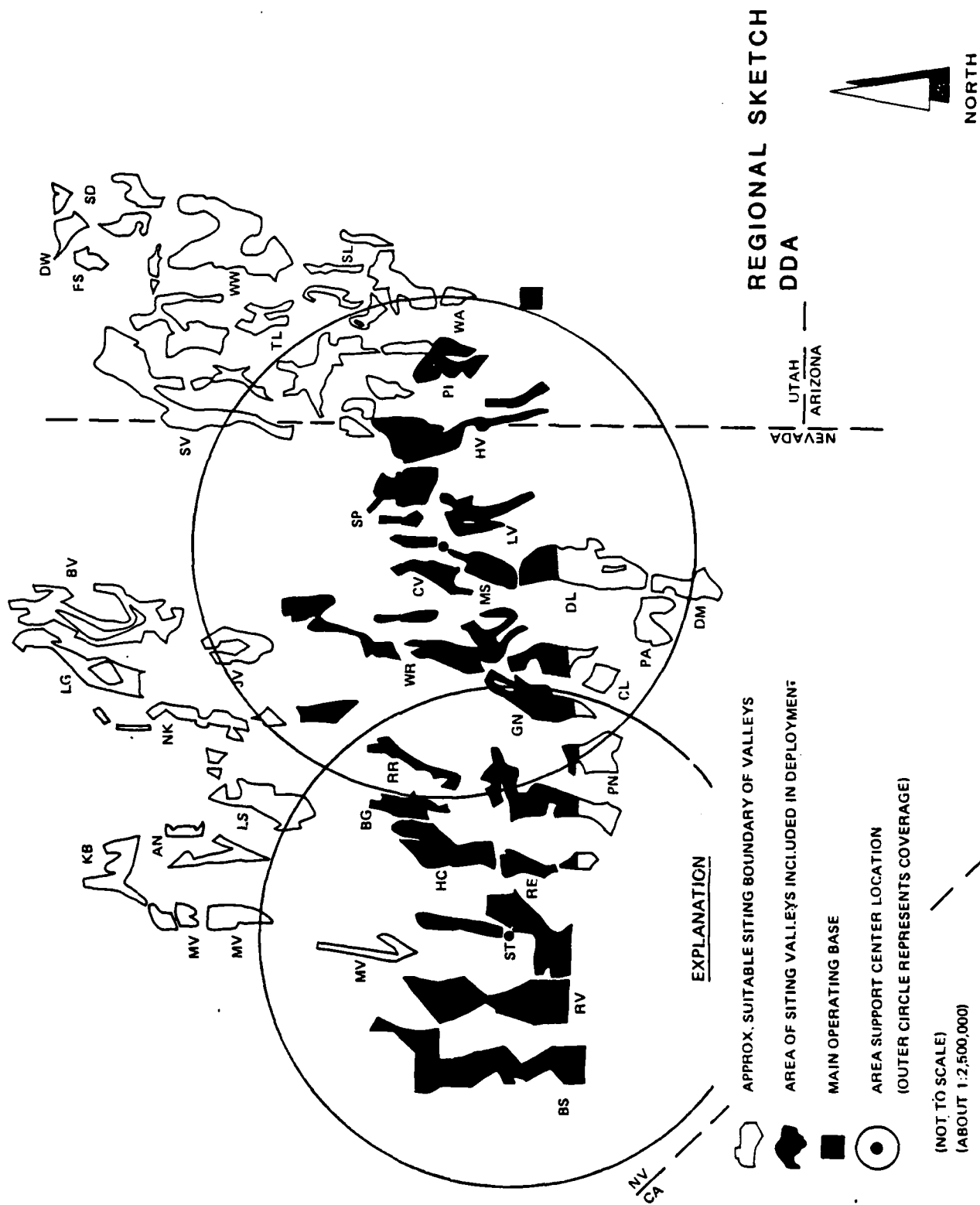
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	252
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	36
Big Smoky	BS	284	Railroad	RR	156
Butte	BV		Ralston	RV	384
Cave	CV	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	134	White River	WR	190
Garden	GN	129			
			TOTAL SHELTERS		2650
			TOTAL VALLEYS		16
			TOTAL ASCs		2



E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

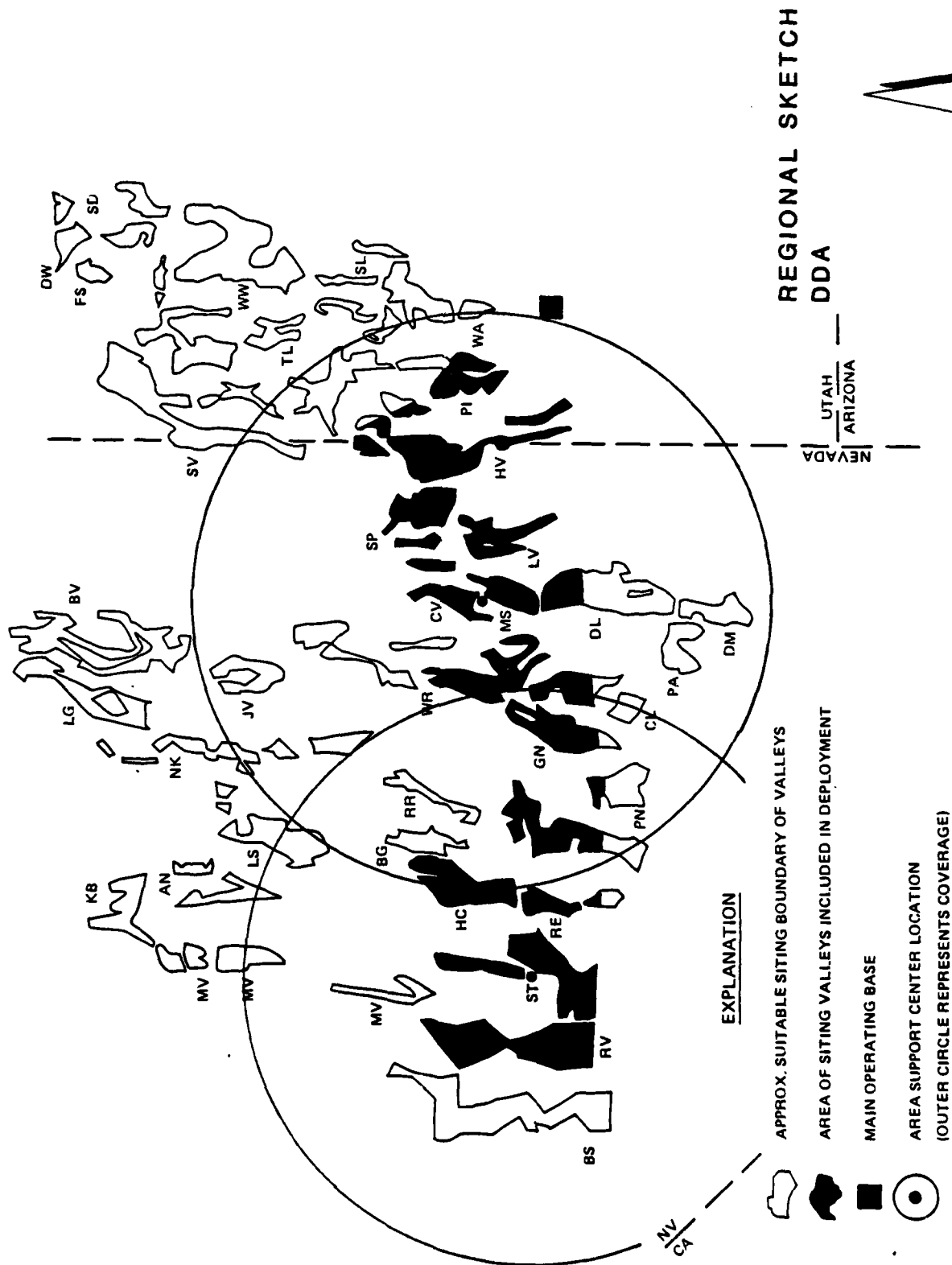
9) Best 2300 shelters - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	161
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	PI	69	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	161
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG	69	Penoyer	PN	23
Big Smoky	BS	230	Railroad	RR	276
Butte	RV		Ralston	RV	207
Cave	CV	69	Reveille	RE	69
Coal	CL	69	Spring	SP	92
Delamar/Pahroc	DM		Stone Cabin	ST	184
Dry Lake	DL	69	White River	WR	276
Garden	GN	92			
			TOTAL SHELTERS		2323
			TOTAL VALLEYS		18
			TOTAL ASCs		2



- A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 10) Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

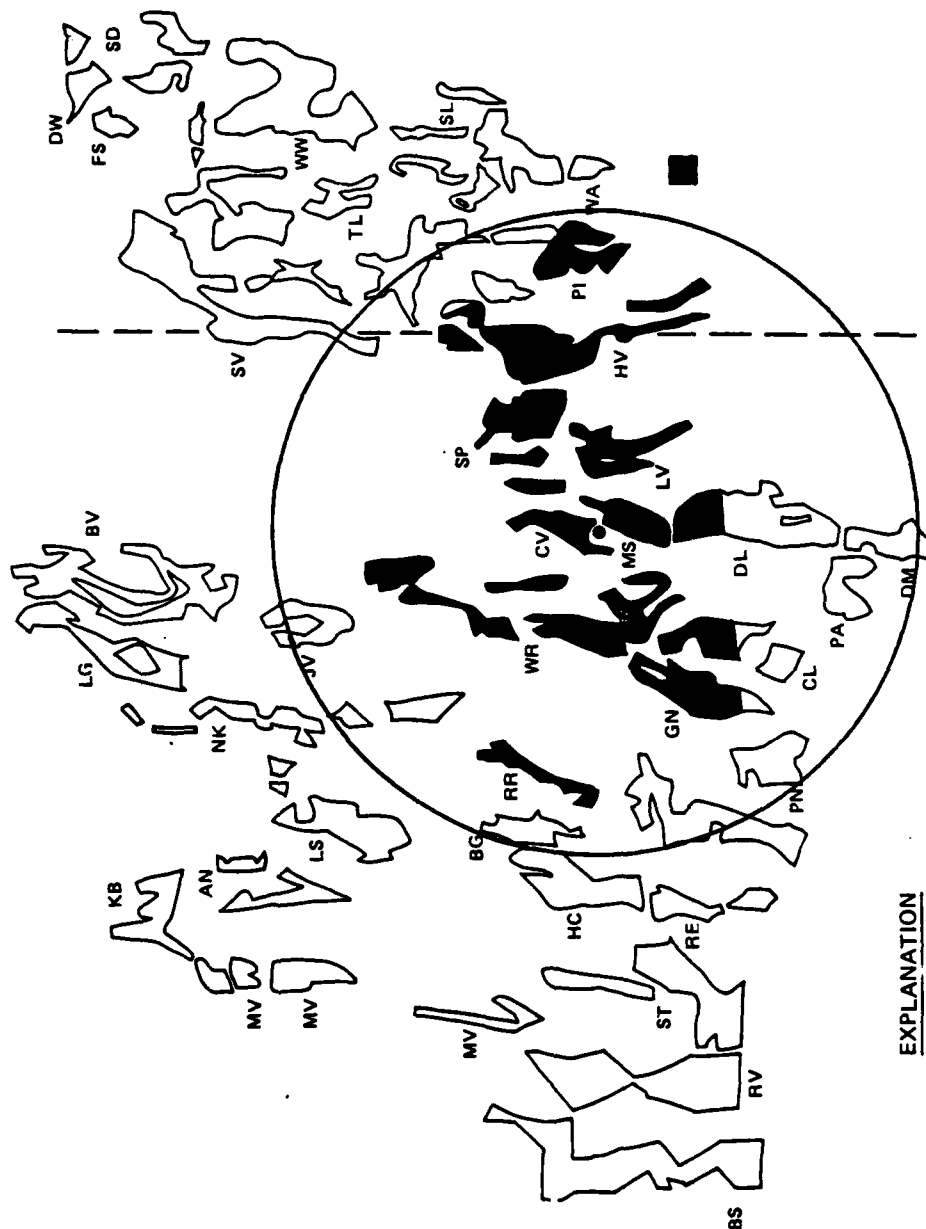
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	300
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	166	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV	26	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	35
Big Smoky	BS		Railroad	RR	173
Butte	BV		Ralston	RV	312
Cave	CV	79	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	95	White River	WR	265
Garden	GN	110			
			TOTAL SHELTERS		2640
			TOTAL VALLEYS		17
			TOTAL ASCs		2



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

10) Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	450
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	200
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	172	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	142	White River	WR	597
Garden	GN	165			
			TOTAL SHELTERS		2683
			TOTAL VALLEYS		11
			TOTAL ASCs		1



EXPLANATION

- APPROX. SITTING BOUNDARY OF VALLEYS
- AREA OF SITTING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION*
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

UTAH
ARIZONA
NEVADA

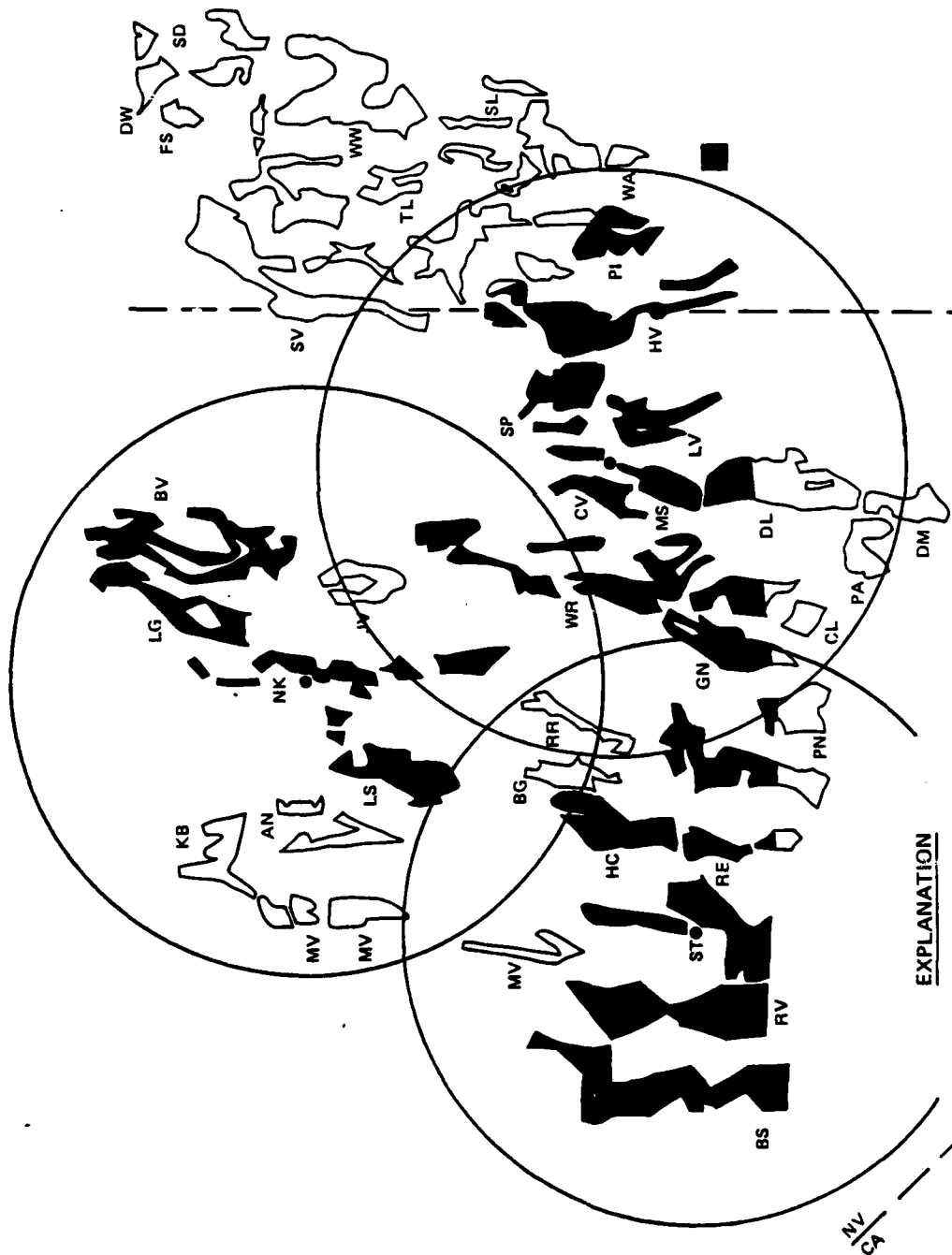
DDA



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

10) Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	168
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI	161	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	94
Sevier Lake	SL		Lake	LV	137
Snake	SV		Little Smoky	LS	80
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	69
Whirlwind	WW		Muleshoe	MS	96
Antelope	AN		Newark	NK	24
Big Sand Springs	BG	189	Penoyer	PN	213
Big Smoky	BS	264	Railroad	RR	256
Butte	BV	70	Ralston	RV	59
Cave	CV	106	Reveille	RE	68
Coal	CL		Spring	SP	159
Delamar/Pahroc	DM	89	Stone Cabin	ST	191
Dry Lake	DL	86	White River	WR	
Garden	GN				
			TOTAL SHELTERS		2678
			TOTAL VALLEYS		21
			TOTAL ASCs		3



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

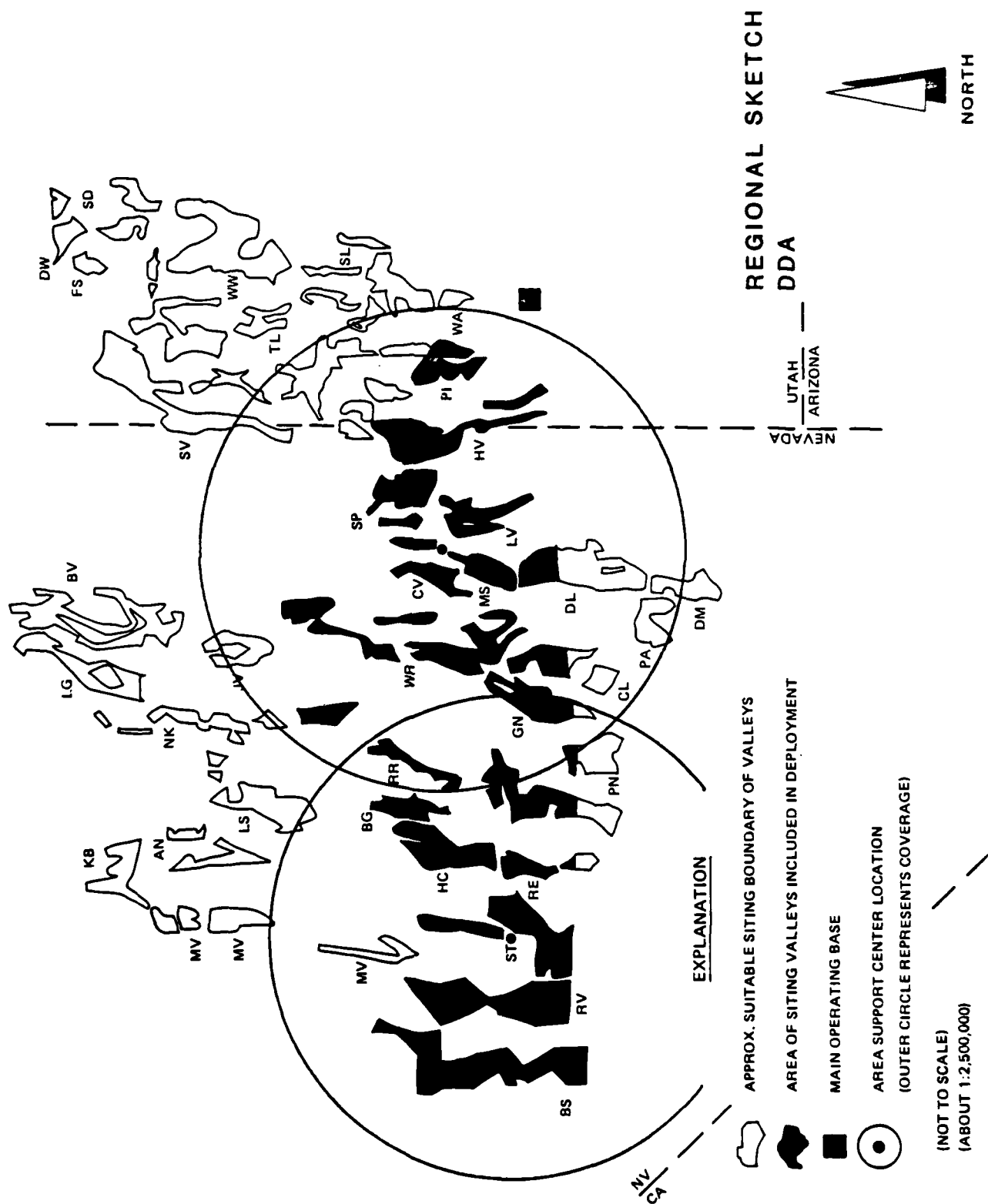
- D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water
- 10) Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	252
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	36
Big Smoky	BS	284	Railroad	RR	156
Butte	BV		Ralston	RV	384
Cave	CV	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	134	White River	WR	190
Garden	GN	129			
			TOTAL SHELTERS		2892
			TOTAL VALLEYS		17
			TOTAL ASCs		2

F) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

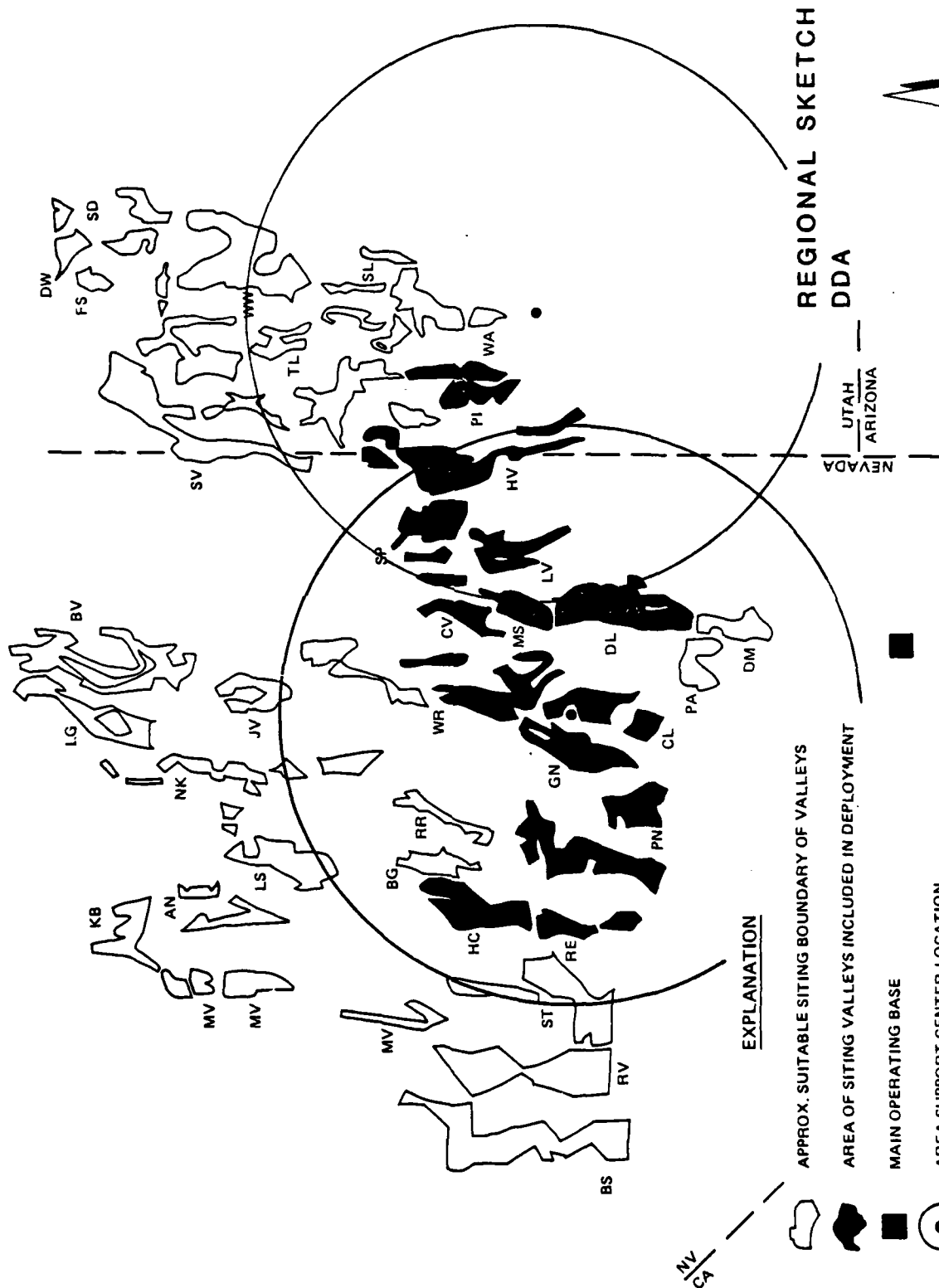
10) Best 2300 shelters - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	161
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	PI	69	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	161
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG	69	Penoyer	PN	23
Big Smoky	BS	230	Railroad	RR	276
Butte	BV		Ralston	RV	207
Cave	CV	69	Reveille	RE	69
Coal	CL	69	Spring	SP	92
Delamar/Pahroc	DM		Stone Cabin	ST	184
Dry Lake	DL	69	White River	WR	276
Garden	GN	92			
			TOTAL SHELTERS		2323
			TOTAL VALLEYS		18
			TOTAL ASCs		2



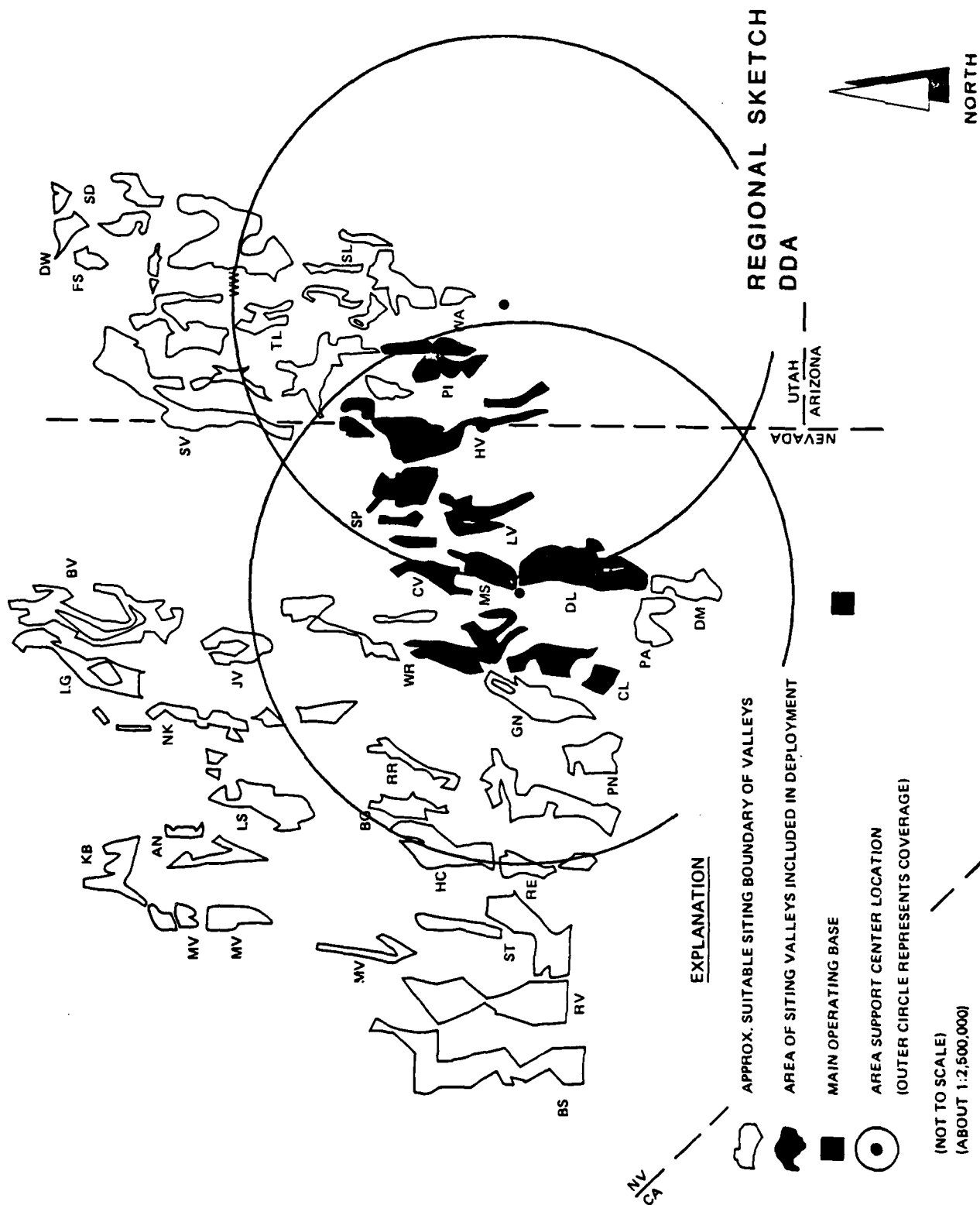
- A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 11) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	284	White River	WR	265
Garden	GN	161			
			TOTAL SHELTERS		2726
			TOTAL VALLEYS		14
			TOTAL ASCs		2



- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 11) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys

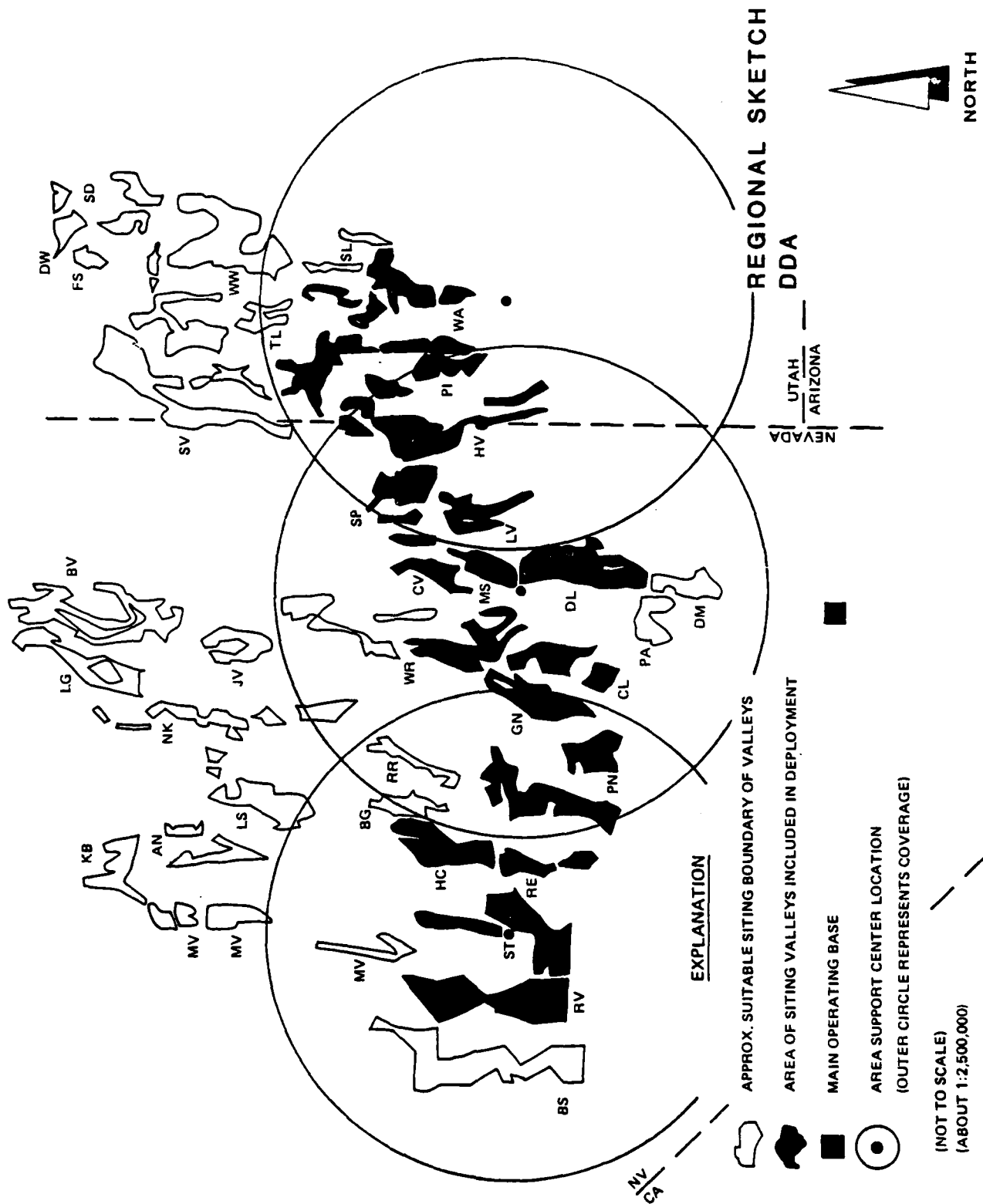
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	500
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	328	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		2734
			TOTAL VALLEYS		9
			TOTAL ASCs		2



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

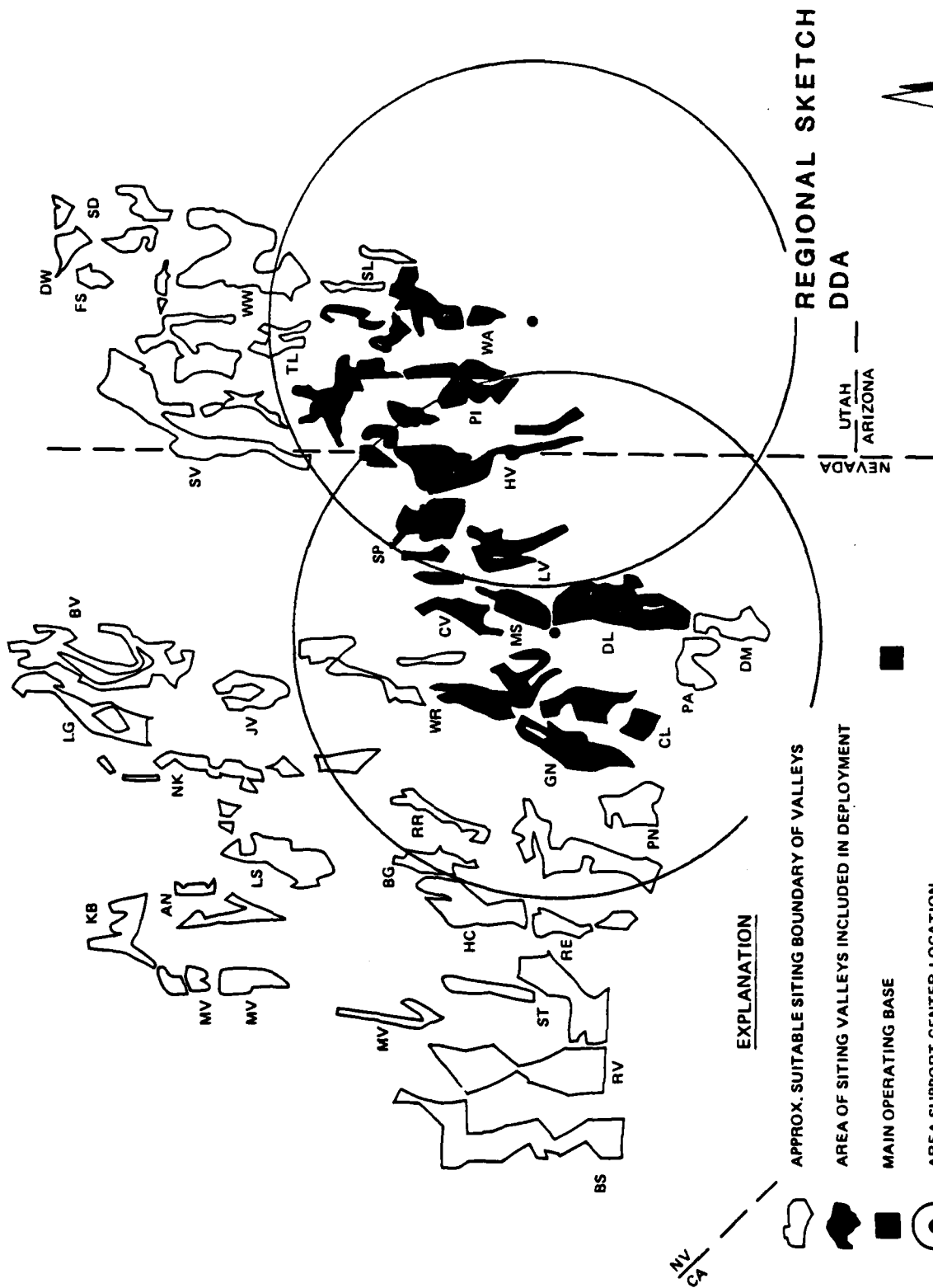
11) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	186
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV	148	Little Smoky	LS	
Tule	TL	40	Long	LG	
Wah Wah	WA	175	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	164
Butte	BV		Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		2711
			TOTAL VALLEYS		19
			TOTAL ASCs		3



- D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water
- 11) Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys

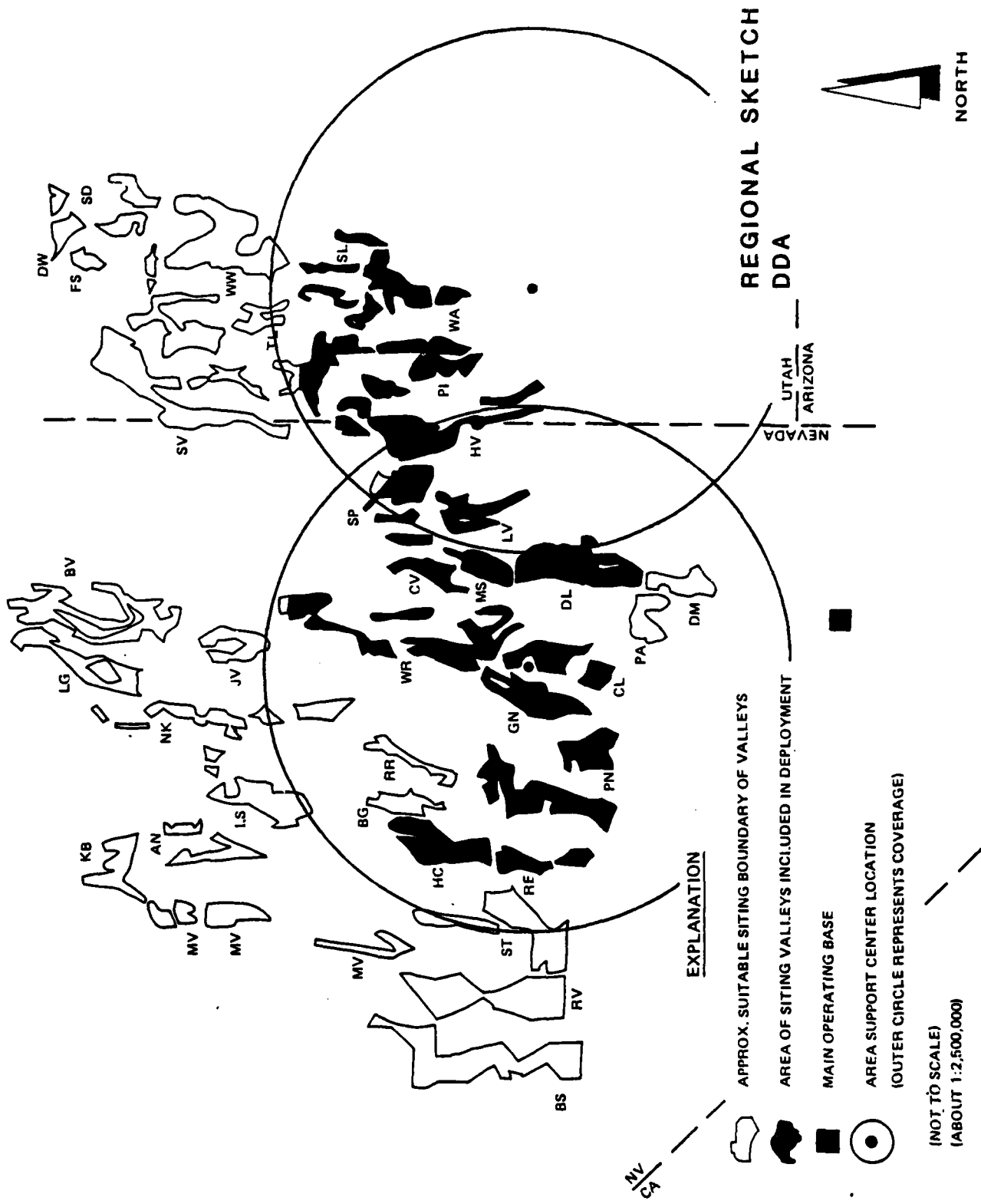
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Koben	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV	222	Little Smoky	LS	
Tule	TL	60	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	102
Coal	CL	302	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	190
Dry Lake	DL	400	White River	WR	
Garden	GN	189			
			TOTAL SHELTERS		2720
			TOTAL VALLEYS		12
			TOTAL ASCs		2



E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

11) Best 2300 shelters - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys

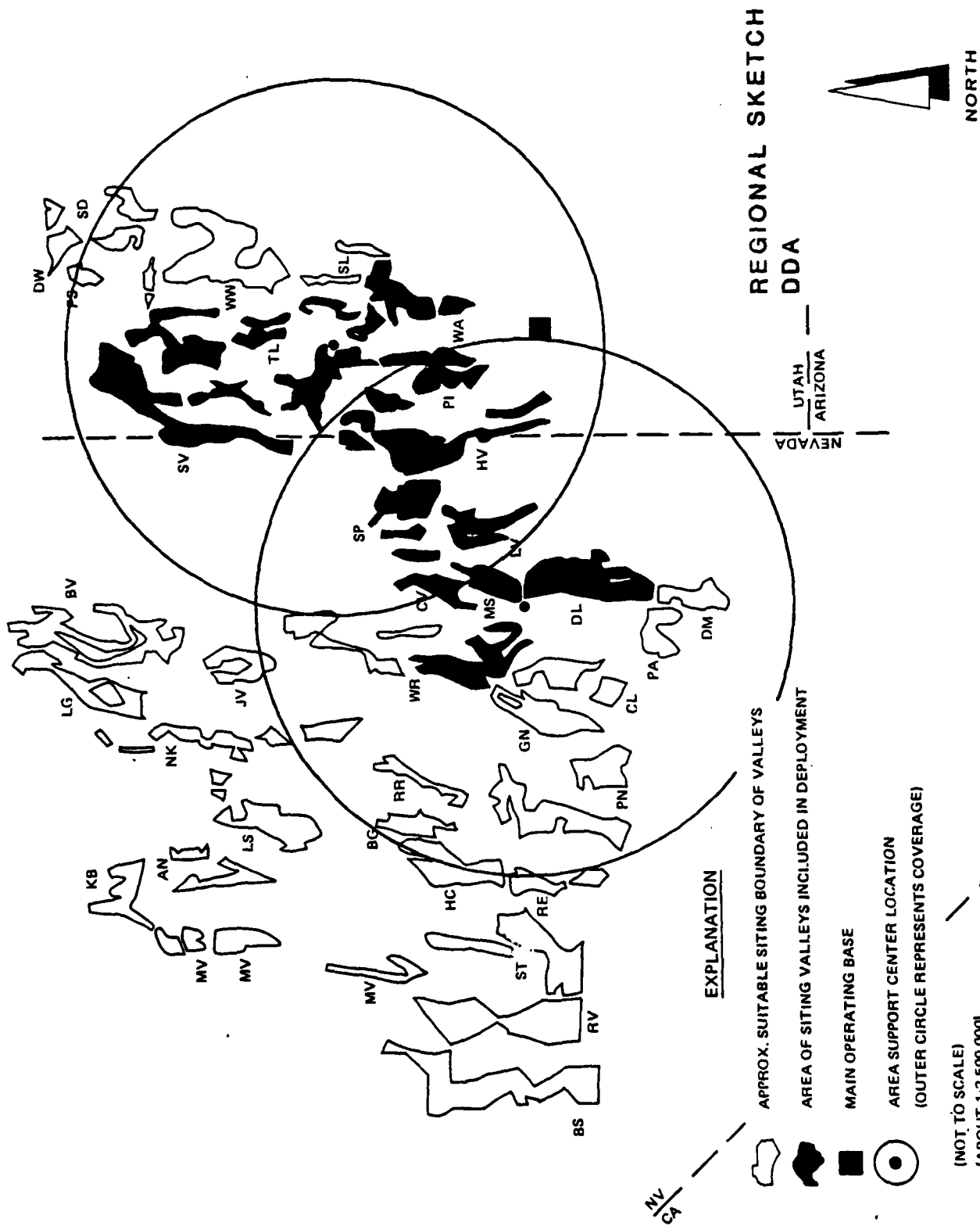
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	230
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	PI	115	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	23	Lake	LV	161
Snake	SV	92	Little Smoky	LS	
Tule	TL	46	Long	LG	
Wah Wah	WA	115	Monitor	MV	
Whirlwind	WW	23	Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	115
Big Smoky	BS		Railroad	RR	184
Butte	BV		Ralston	RV	
Cave	CV	69	Reveille	RE	69
Coal	CL	138	Spring	SP	92
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	230	White River	WR	253
Garden	GN	138			
			TOTAL SHELTERS		2300
			TOTAL VALLEYS		19
			TOTAL ASCs		2



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

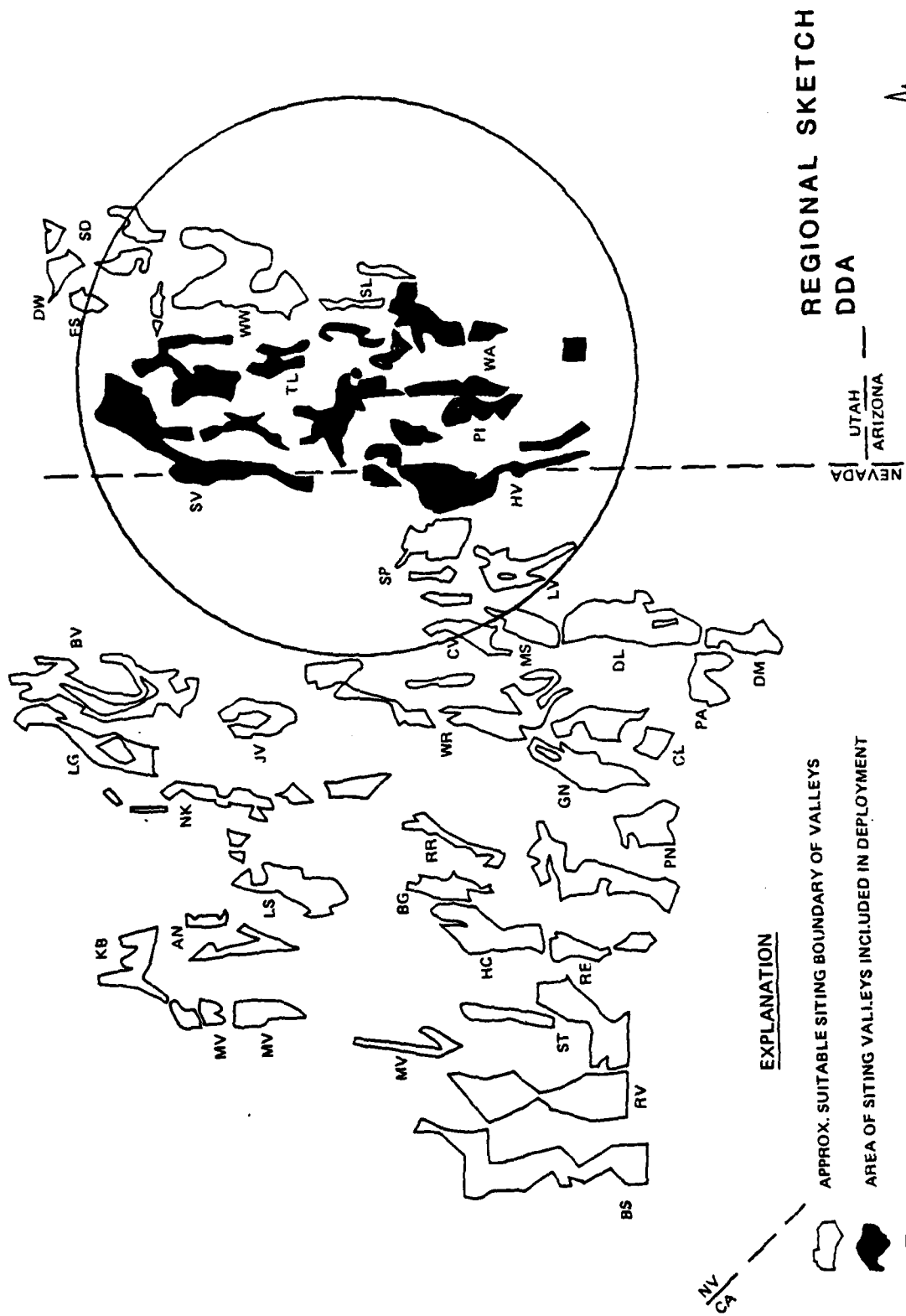
12) Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV	650	Little Smoky	LS	
Tule	TL	367	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	121
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	265
Dry Lake	DL	284	White River	WR	
Garden	GN				
			TOTAL SHELTERS		2833
			TOTAL VALLEYS		11
			TOTAL ASCs		2



- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 12) Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

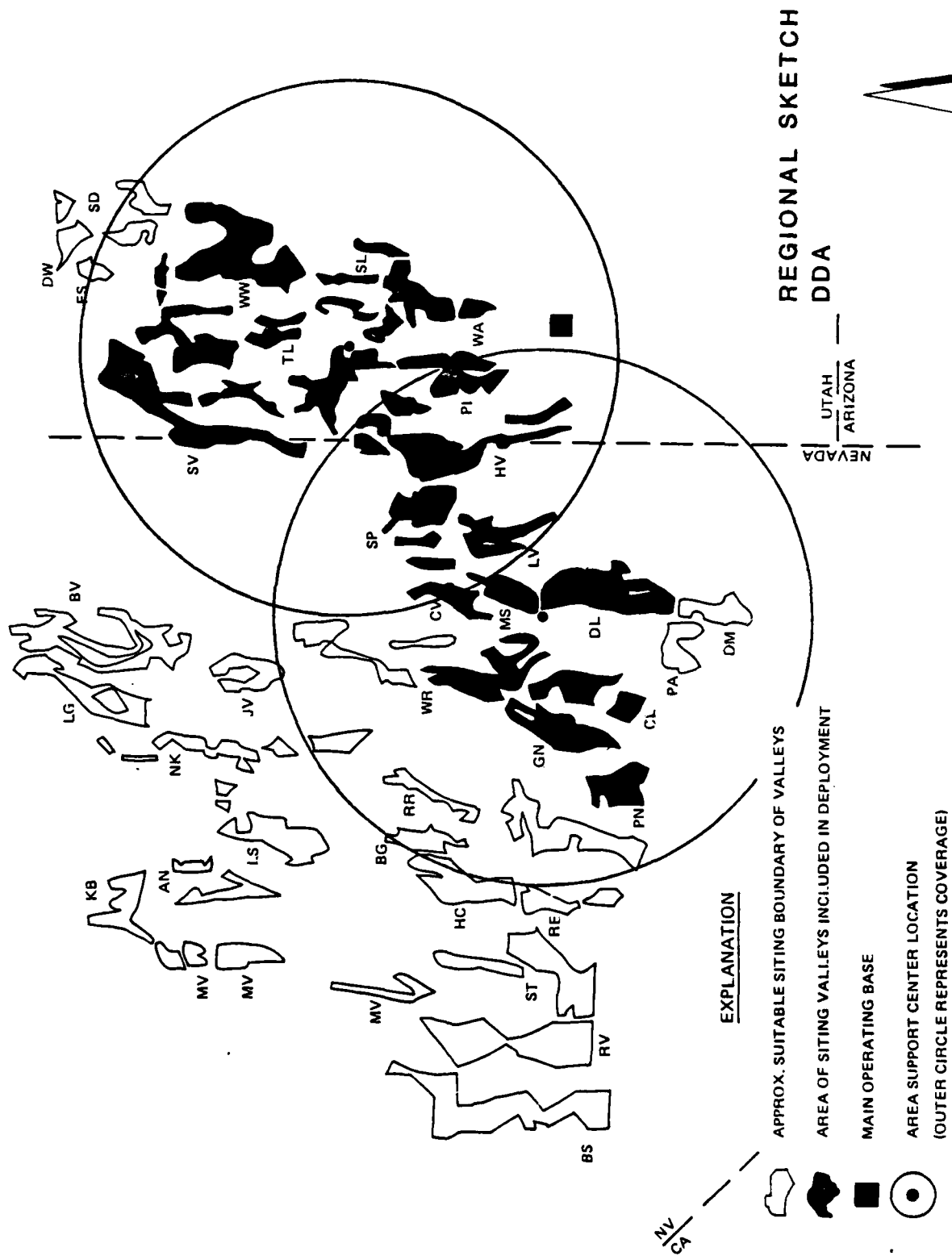
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	500
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV	975	Little Smoky	LS	
Tule	TL	550	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		2719
			TOTAL VALLEYS		5
			TOTAL ASCs		1



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

12) Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

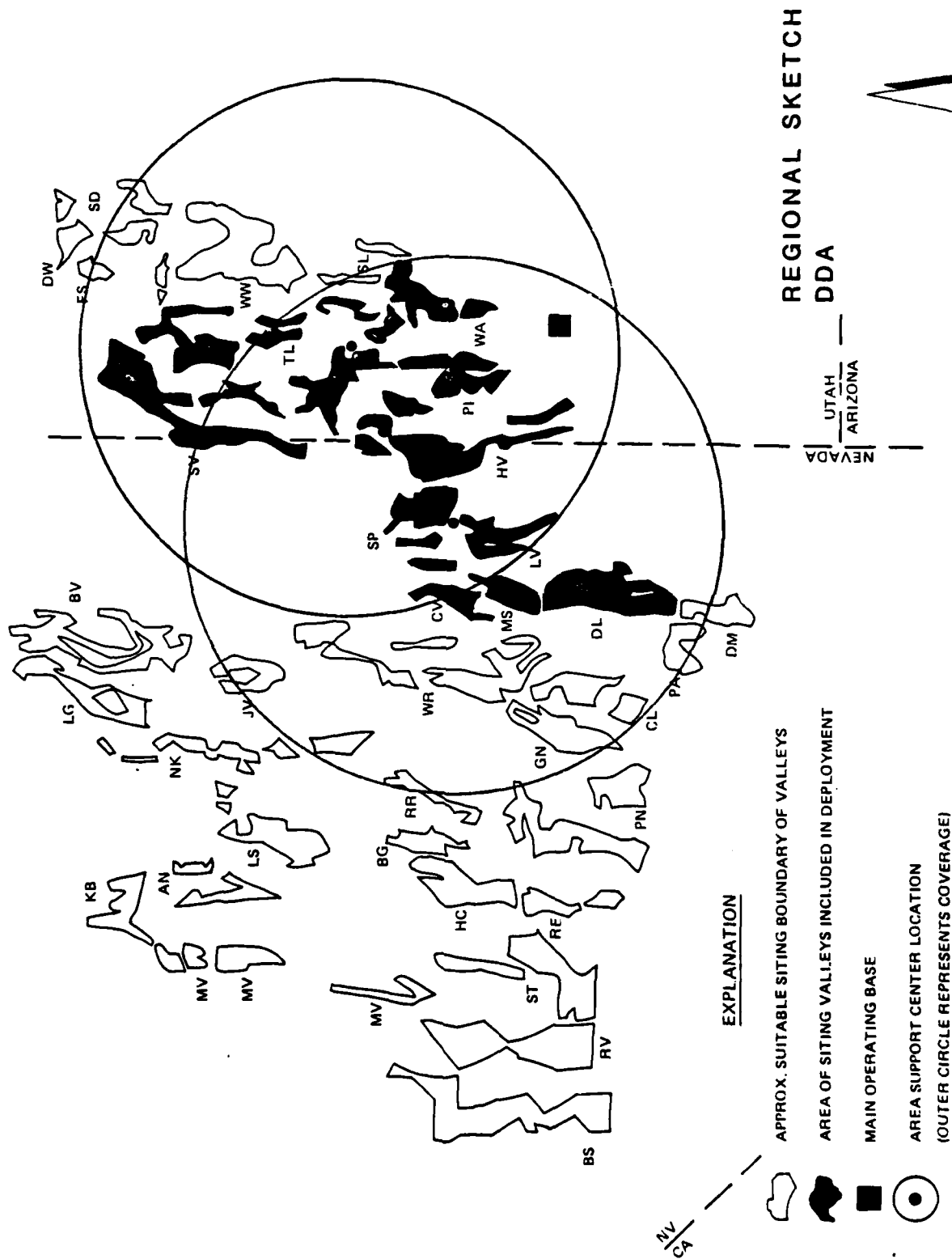
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Duquay	DW		Hamlin	HV	186
Fish Springs Flat	FS	23	Hot Creek	HC	
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	57	Lake	LV	94
Snake	SV	390	Little Smoky	LS	
Tule	TL	198	Long	LG	
Wah Wah	WA	175	Monitor	MV	
Whirlwind	WW	215	Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		2654
			TOTAL VALLEYS		17
			TOTAL ASCs		2



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

12) Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

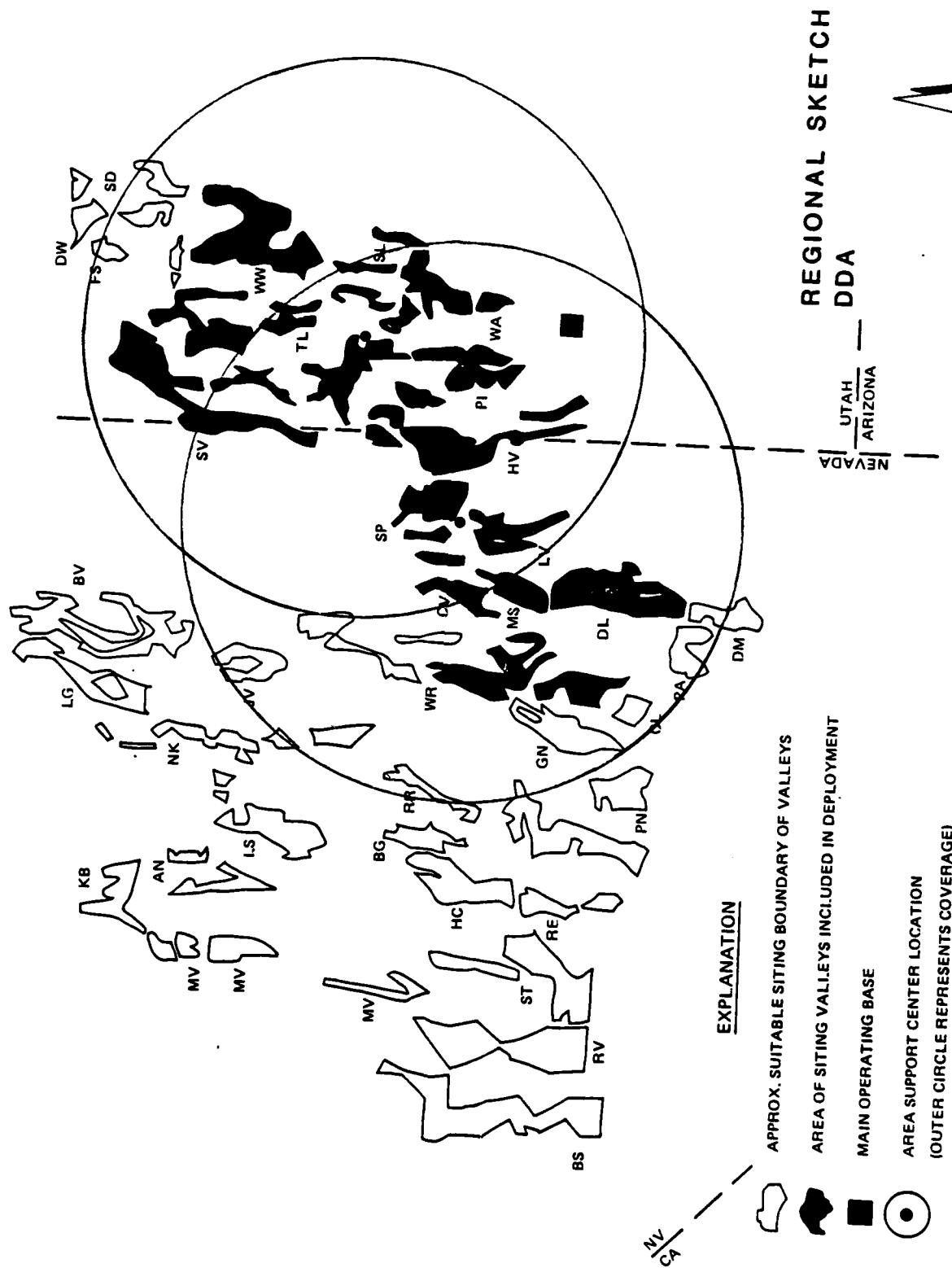
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	
Coal	CL		Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	
Garden	GN				
			TOTAL SHELTERS		2639
			TOTAL VALLEYS		10
			TOTAL ASCs		2



E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

12) Best 2300 shelters - Milford MOB, avoid Delamar/Pahroc valleys

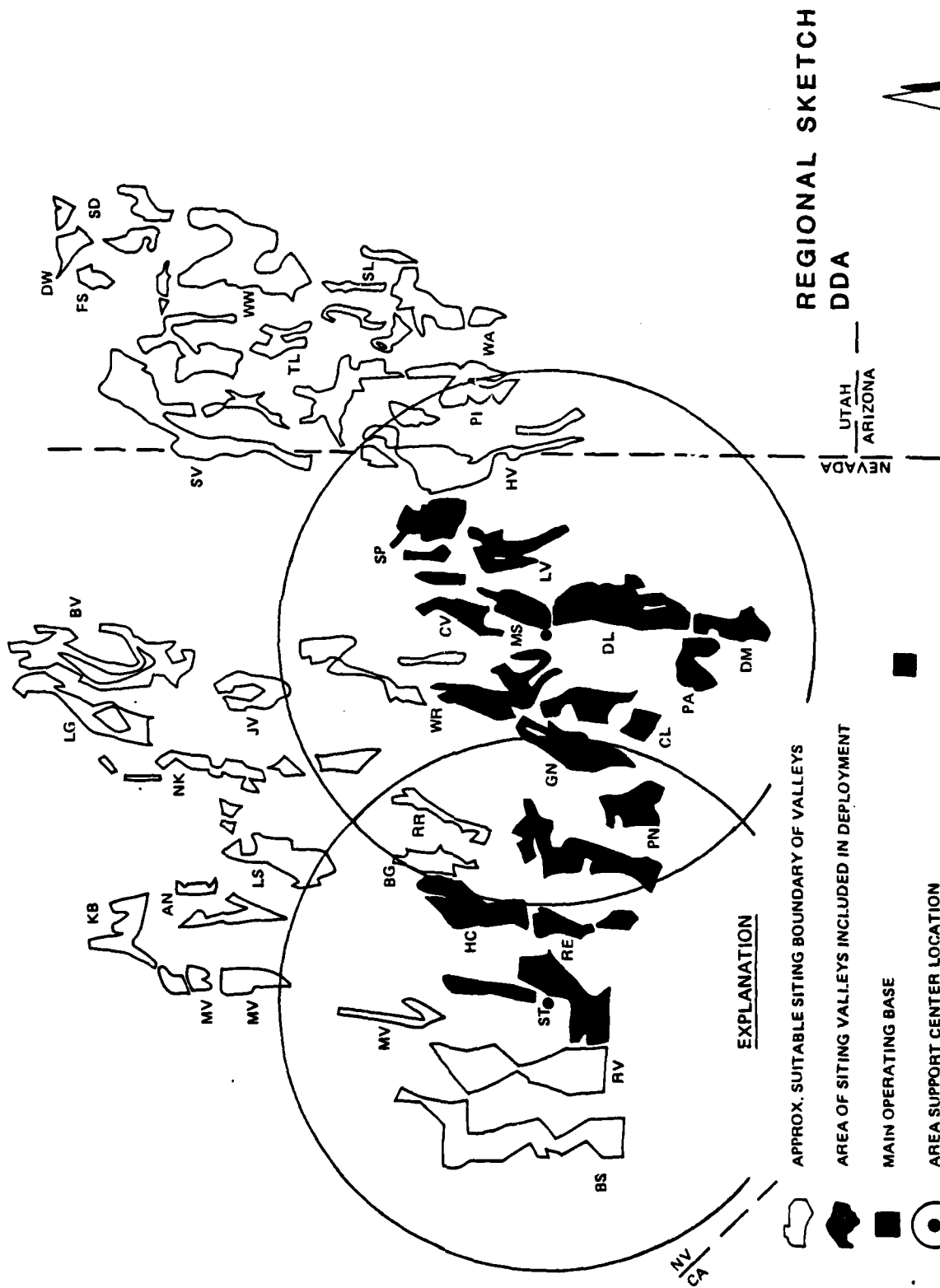
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	230
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	115	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	23	Lake	LV	161
Snake	SV	437	Little Smoky	LS	
Tule	TL	230	Long	LG	
Wah Wah	WA	115	Monitor	MV	
Whirlwind	WW	276	Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	69	Reveille	RE	
Coal	CL	92	Spring	SP	92
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	230	White River	WR	161
Garden	GN				
			TOTAL SHELTERS		2300
			TOTAL VALLEYS		14
			TOTAL ASCs		2



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

13-7) Best 2300 shelters and 15 percent - Coyote MOB, Nevada only

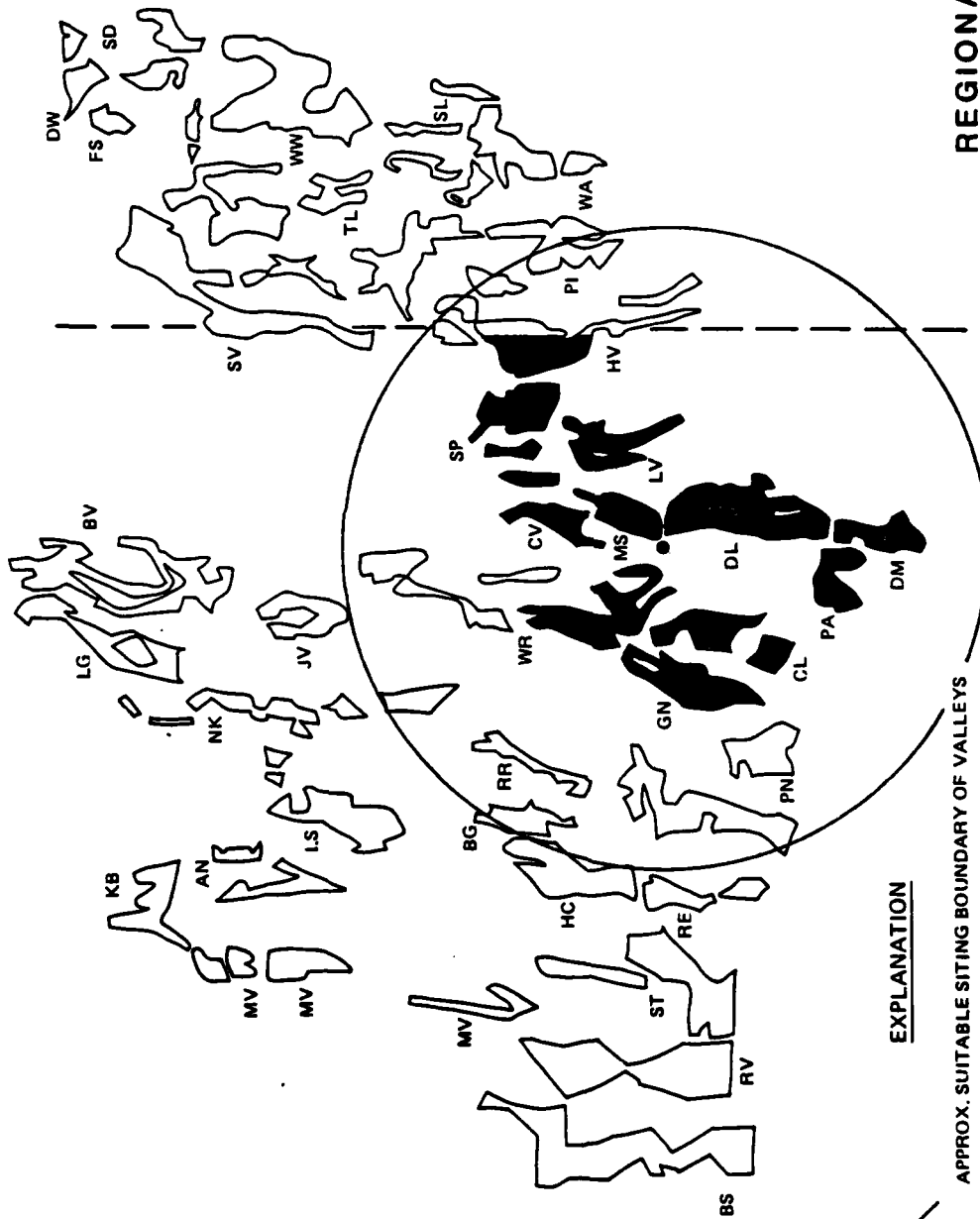
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM	170	Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	265
Garden	GN	161			
			TOTAL SHELTERS		2645
			TOTAL VALLEYS		14
			TOTAL ASCs		2



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

13-7) Best 2300 shelters and 15 percent - Coyote MOB, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Pencyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	328	Spring	SP	182
Delamar/Pahroc	DM	255	Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN	242			
			TOTAL SHELTERS		2669
			TOTAL VALLEYS		10
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

NEVADA
UTAH
ARIZONA



NORTH

EXPLANATION

APPROX. SITING BOUNDARY OF VALLEYS

AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT

MAIN OPERATING BASE

AREA SUPPORT CENTER LOCATION

(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)

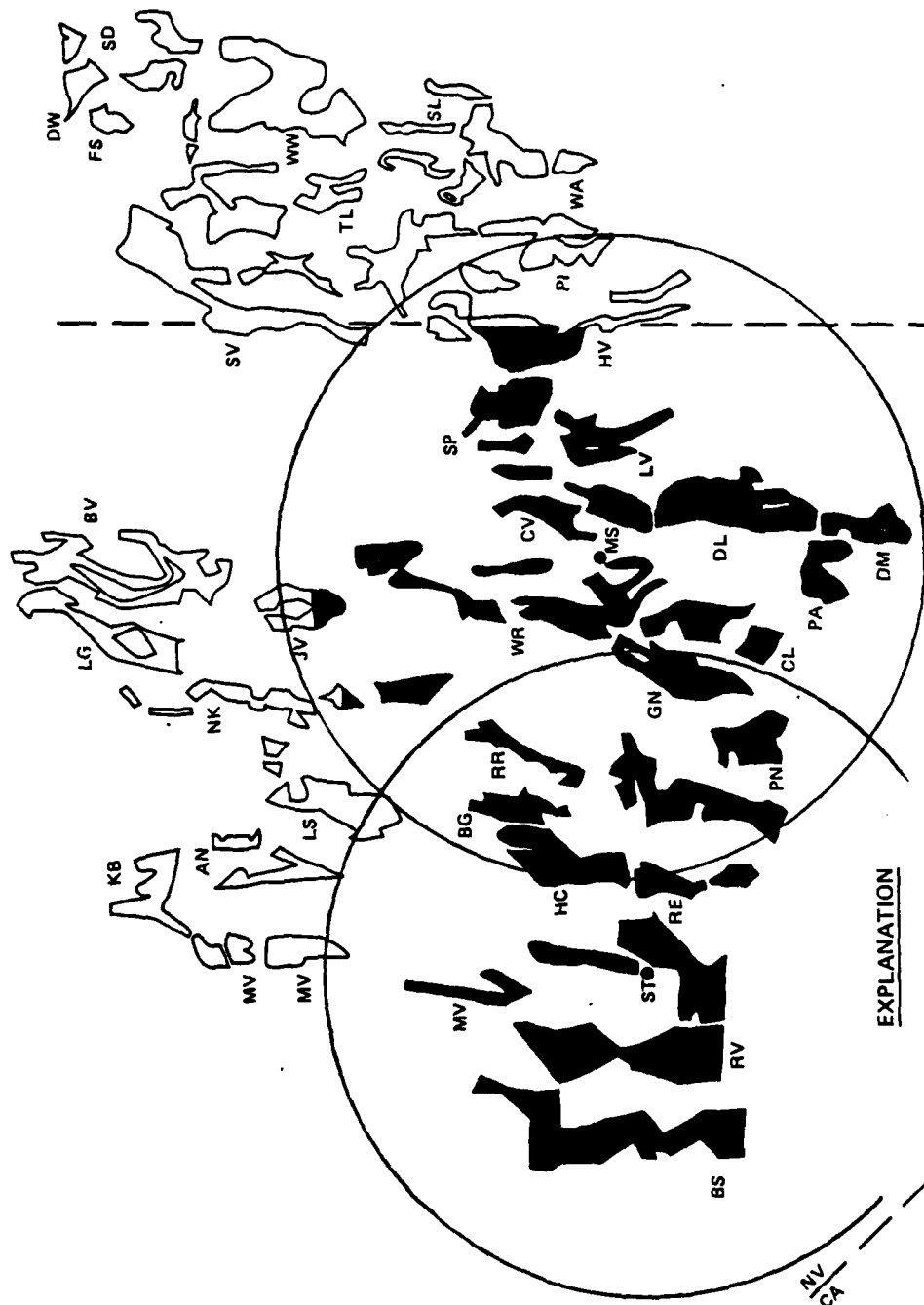
(ABOUT 1:2,500,000)



NV
CA

- C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water
- 13-7) Best 2300 shelters and 15 percent - Coyote MOB, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	33
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	28
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	263
Butte	BV		Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		2644
			TOTAL VALLEYS		20
			TOTAL ASCS		2



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

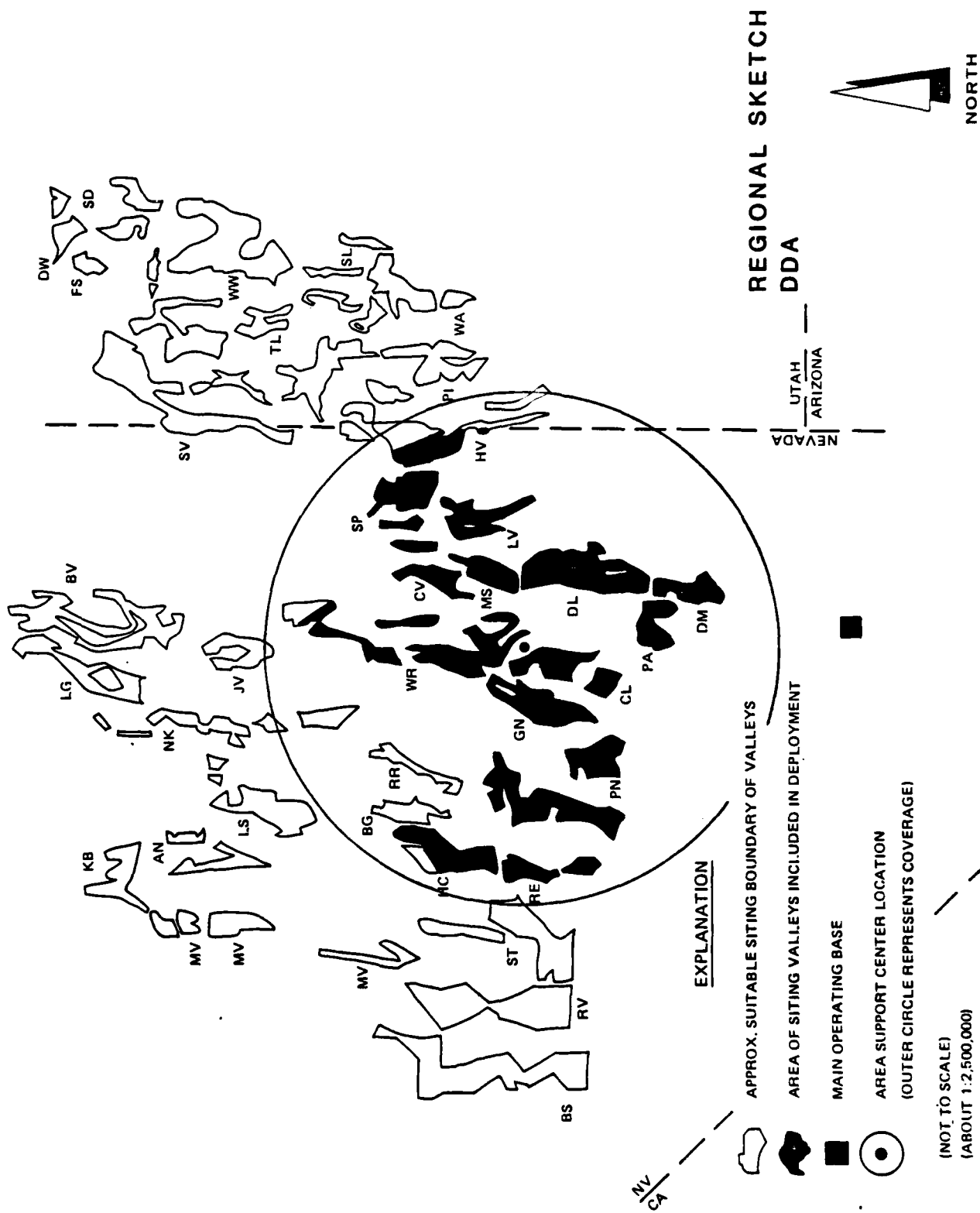
NEVADA
UTAH
ARIZONA
CALIFORNIA



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

13-7) Best 2300 shelters and 15 percent - Coyote MOB, Nevada only

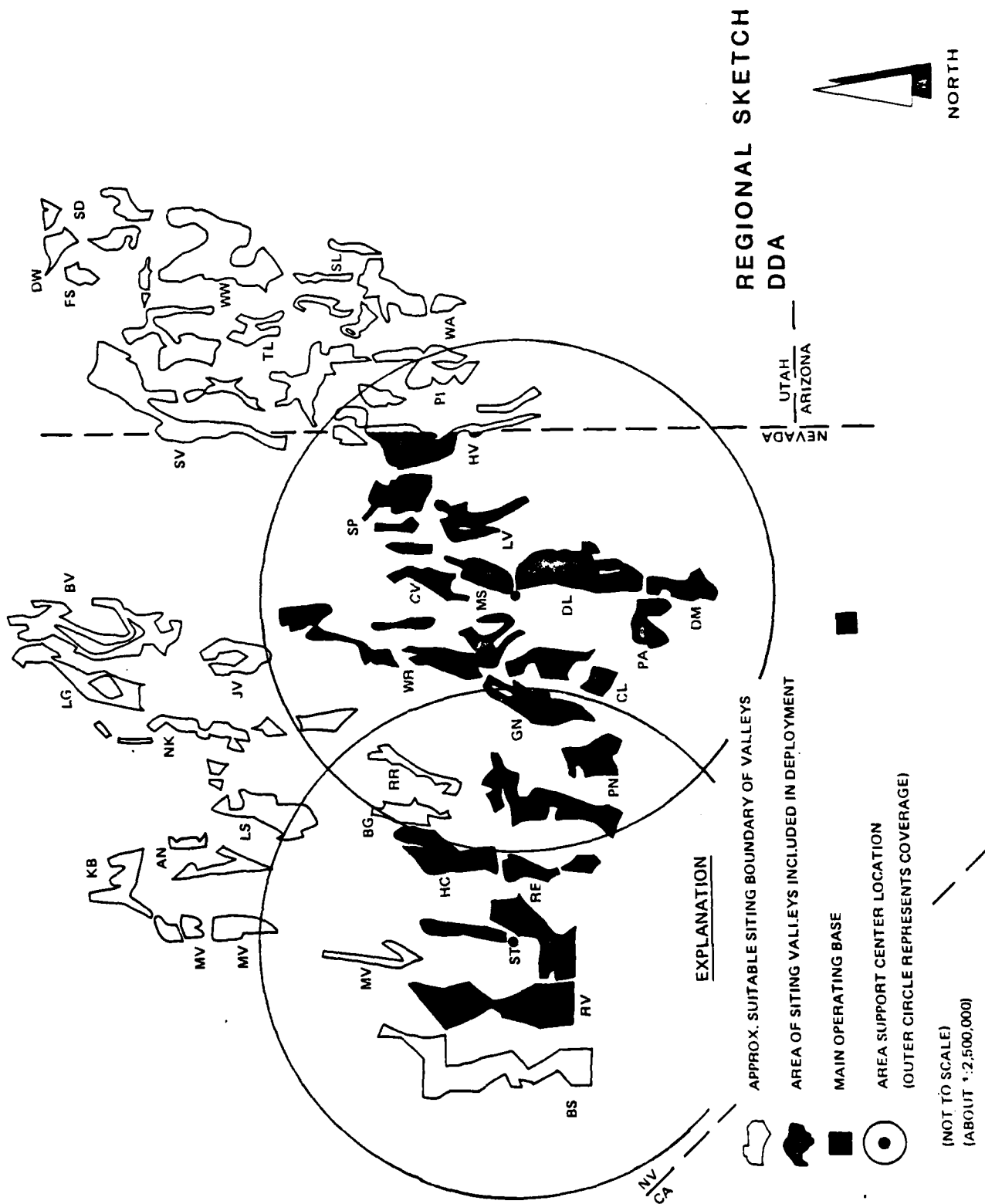
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	139
Fish Springs Flat	FS		Hot Creek	HC	123
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	246
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM	207	Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	271
Garden	GN	189			
			TOTAL SHELTERS		2659
			TOTAL VALLEYS		14
			TOTAL ASCs		1



E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

13-7) Best 2300 shelters - Coyote MOB, Nevada only

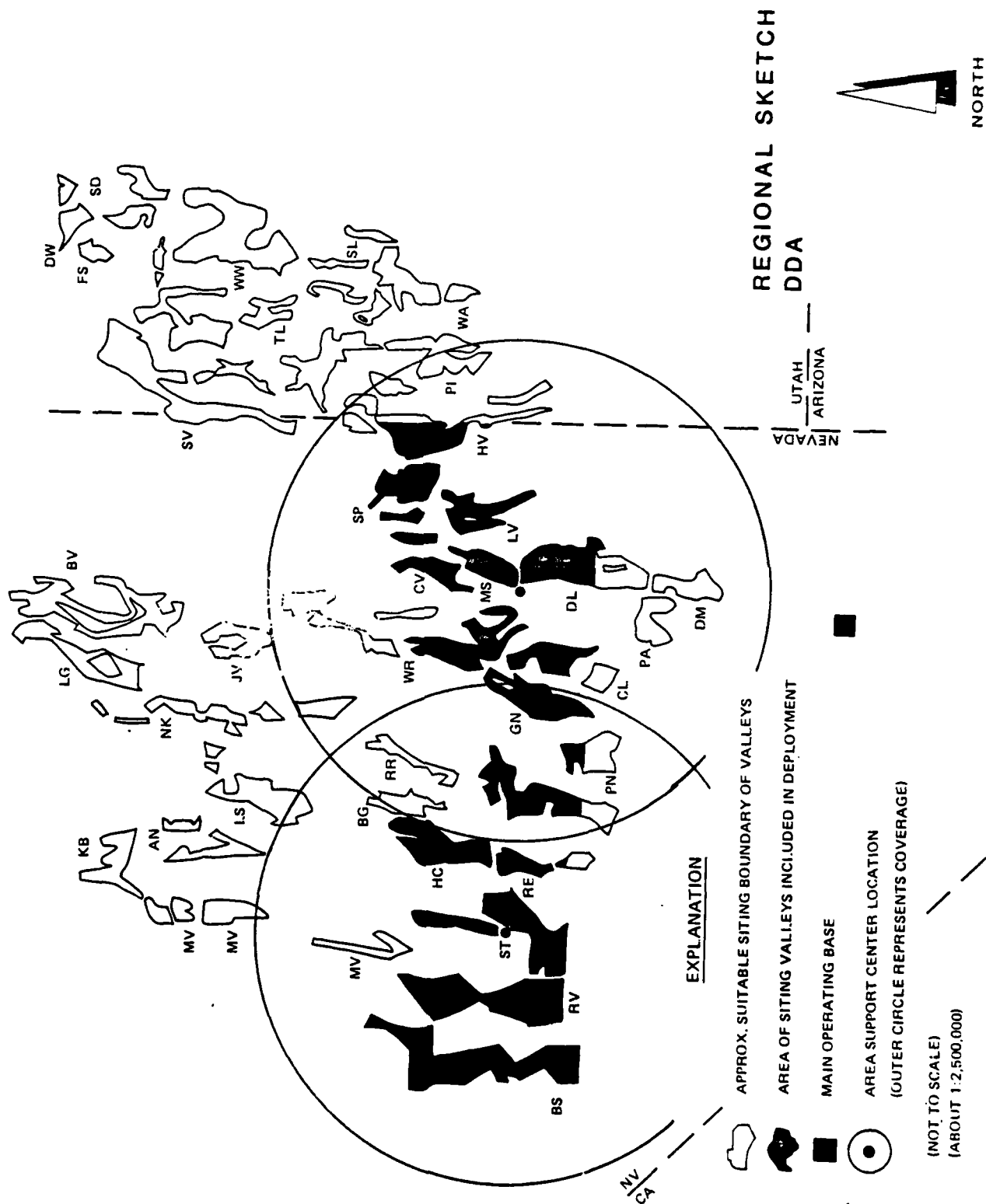
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	138
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	161
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	115
Big Smoky	BS		Railroad	RR	184
Butte	BV		Ralston	RV	207
Cave	CV	69	Reveille	RE	69
Coal	CL	138	Spring	SP	92
Delamar/Pahroc	DM	138	Stone Cabin	ST	184
Dry Lake	DL	230	White River	WR	276
Garden	GN	138			
			TOTAL SHELTERS		2346
			TOTAL VALLEYS		16
			TOTAL ASCs		2



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

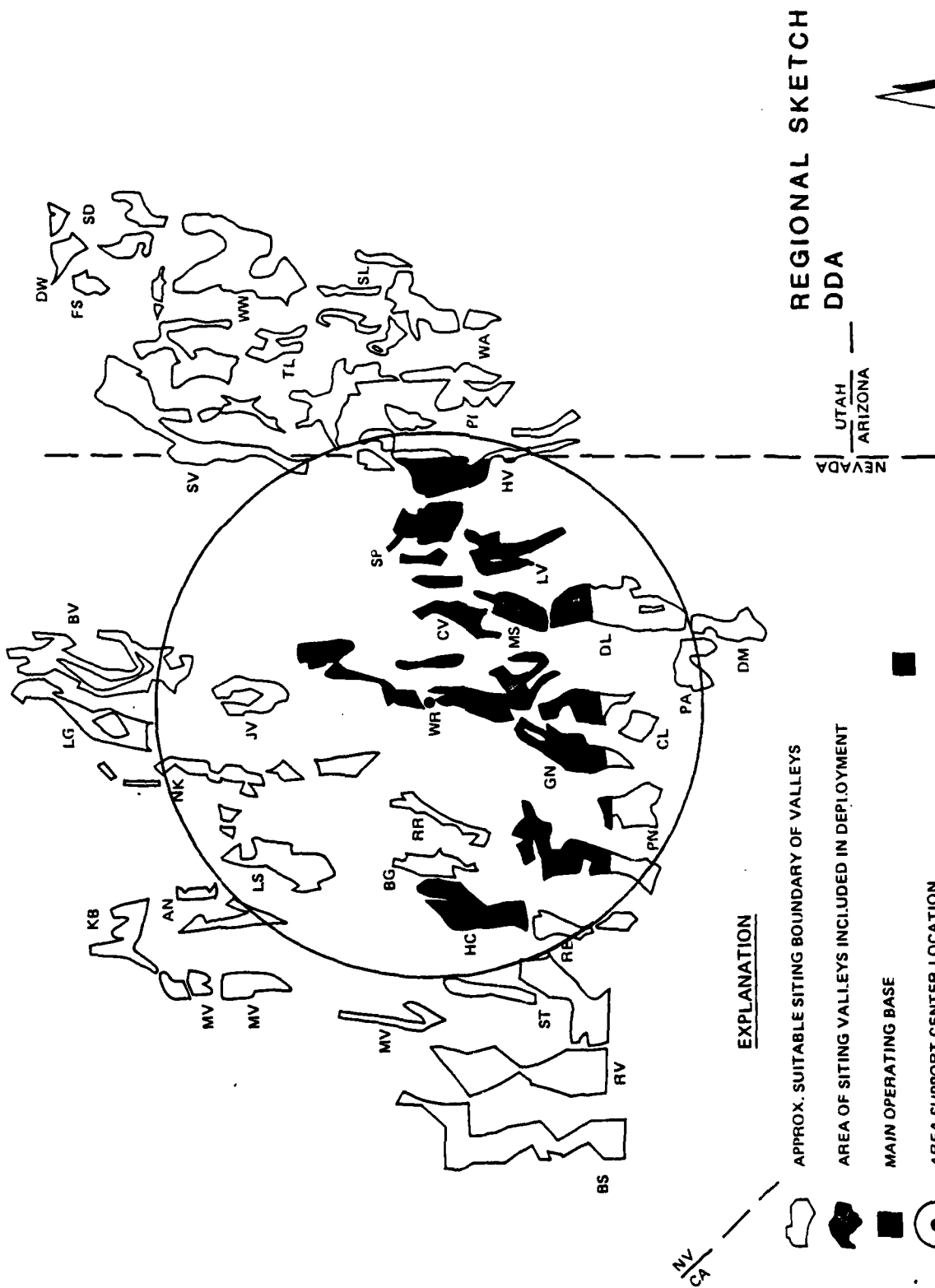
13-9) Best 2300 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	173
Butte	BV		Ralston	RV	312
Cave	CV	72	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	95	White River	WR	265
Garden	GN	110			
			TOTAL SHELTERS		2786
			TOTAL VALLEYS		16
			TOTAL ASCs		2



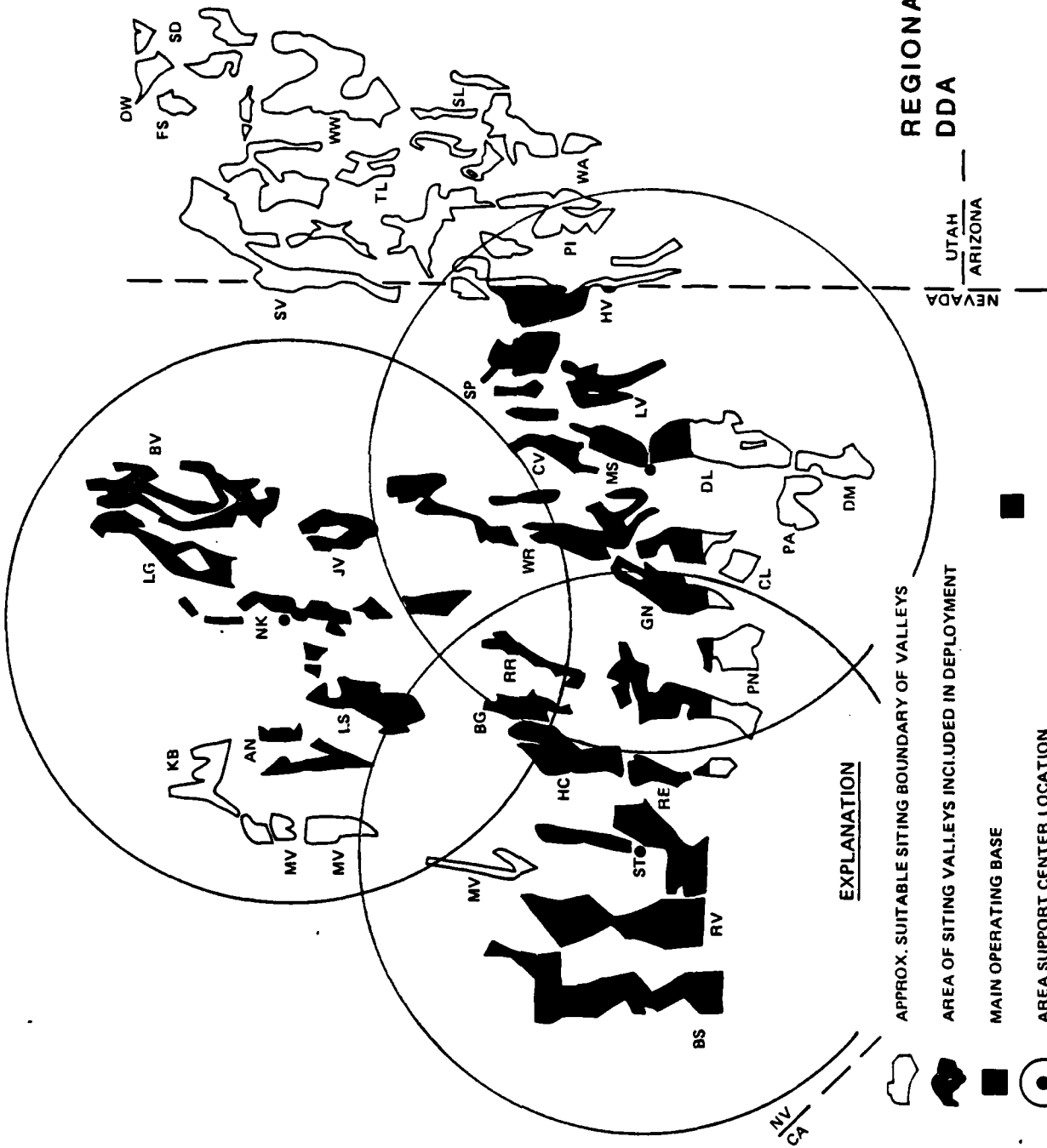
- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 13-9) Best 2300 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas,
Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	225
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	52
Big Smoky	BS		Railroad	RR	260
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	172	Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	142	White River	WR	597
Garden	GN	165			
			TOTAL SHELTERS		2633
			TOTAL VALLEYS		12
			TOTAL ASCS		1



- C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water
- 13-9) Best 2300 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas,
Nevada only

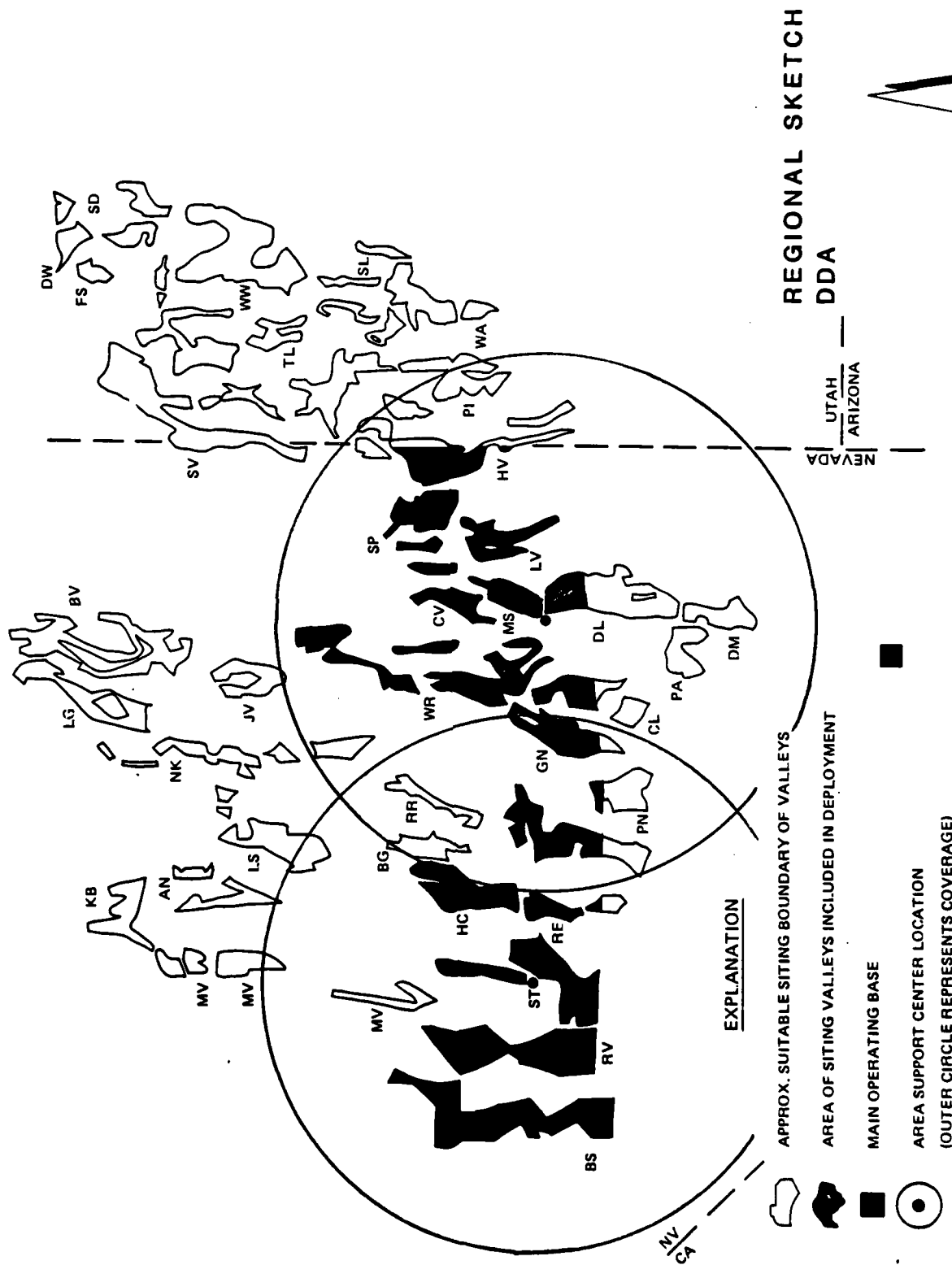
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	83
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	137
Tule	TL		Long	LG	80
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	59
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	89	White River	WR	191
Garden	GN	86			
			TOTAL SHELTERS		2656
			TOTAL VALLEYS		23
			TOTAL ASCs		3



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

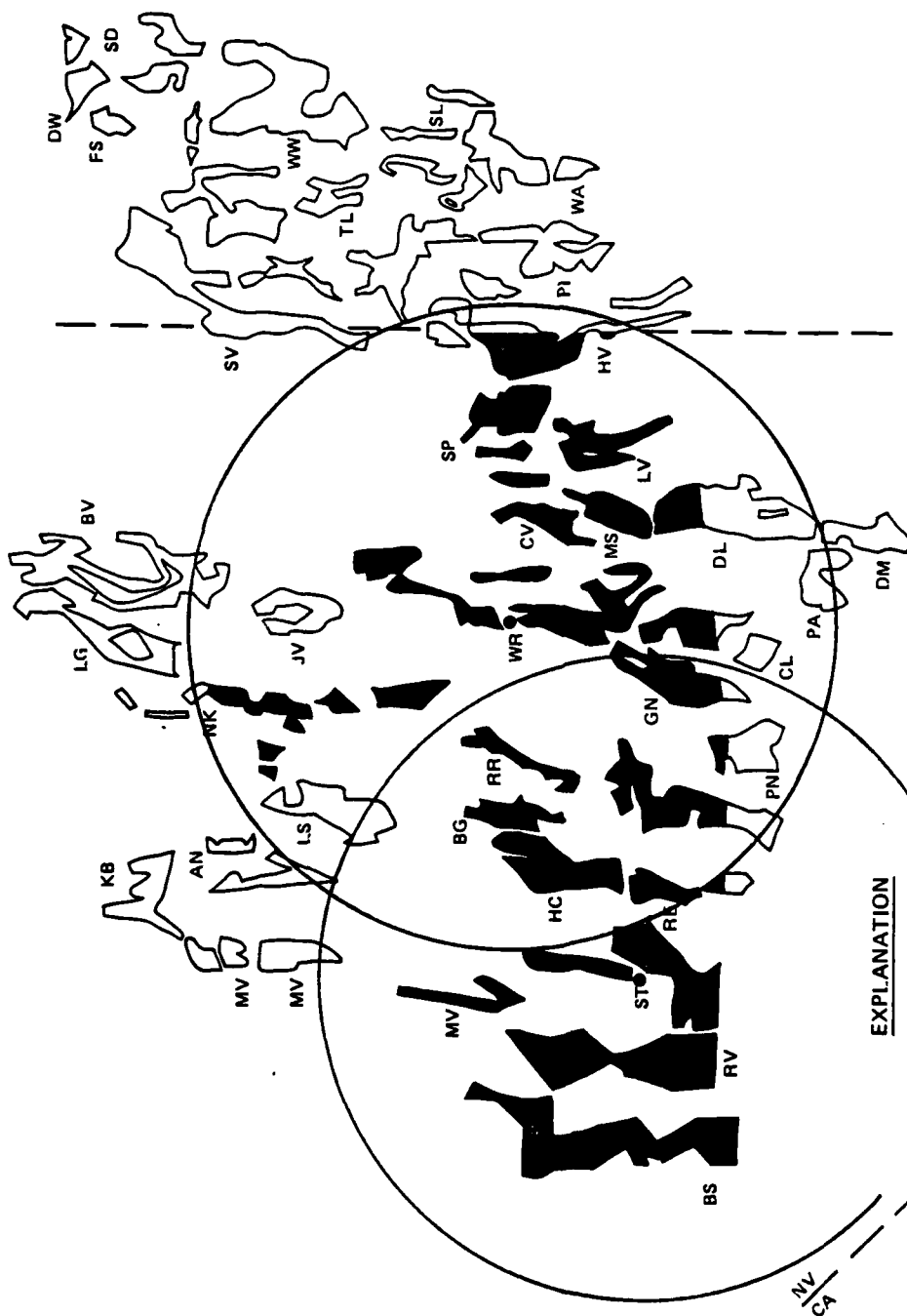
13-9) Best 2300 shelters and 15 percentpercent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	174
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	36
Big Smoky	RS	284	Railroad	RR	156
Butte	BV		Ralston	RV	384
Cave	CV	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	DL	134	White River	WR	286
Garden	GN	129			
			TOTAL SHELTERS		2668
			TOTAL VALLEYS		16
			TOTAL ASCs		2



E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers
 13-9) Best 2300 shelters - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	138
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	161
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	46
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	92
Big Sand Springs	BG	69	Penoyer	PN	23
Big Smoky	BS	230	Railroad	RR	230
Butte	BV		Ralston	RV	207
Cave	CV	69	Reveille	RE	46
Coal	CL	69	Spring	SP	92
Delamar/Pahroc	DM		Stone Cabin	ST	184
Dry Lake	DL	69	White River	WR	276
Garden	GN	92			
			TOTAL SHELTERS		2300
			TOTAL VALLEYS		19
			TOTAL ASCs		2



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION (OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

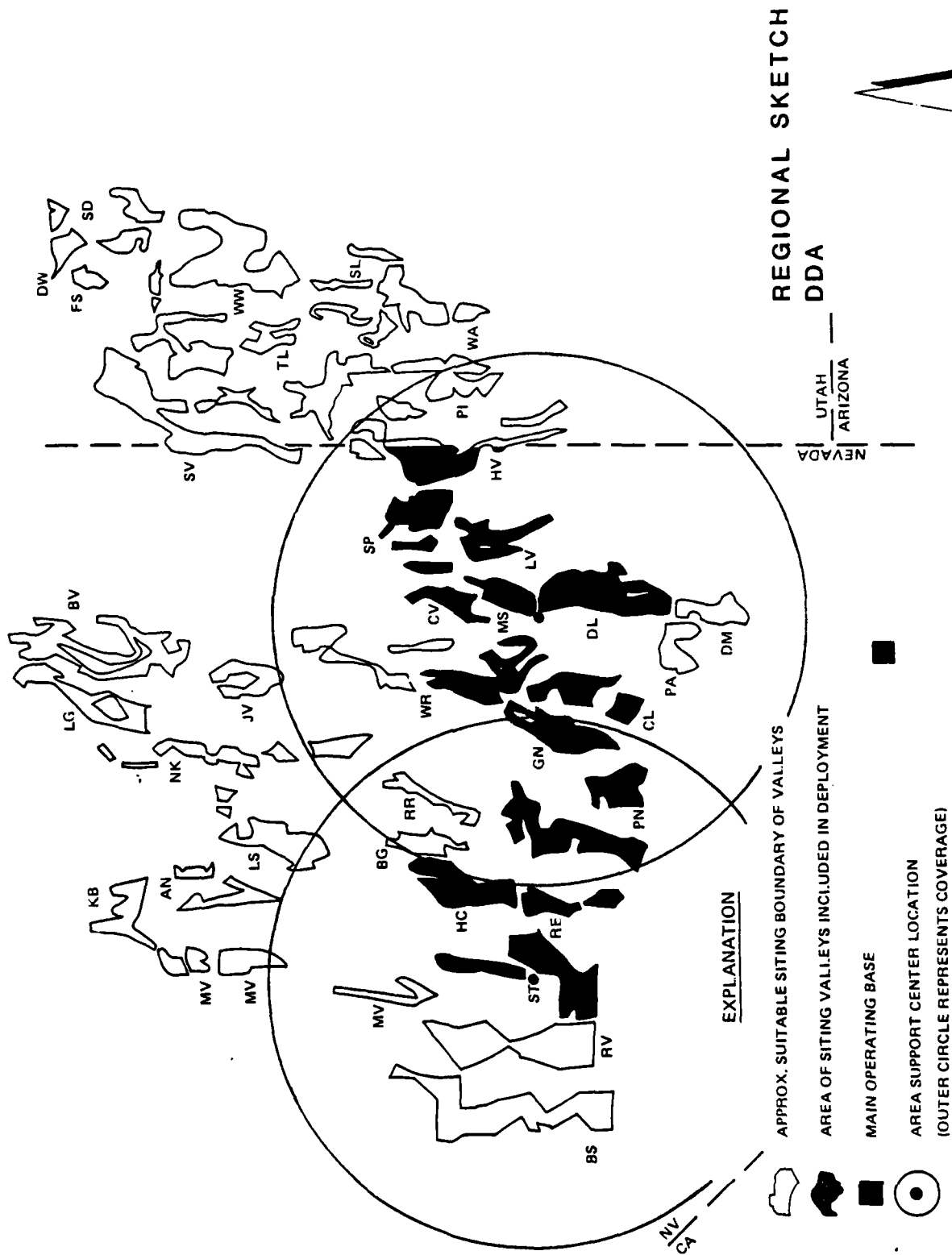
DDA

NEVADA
UTAH
ARIZONA



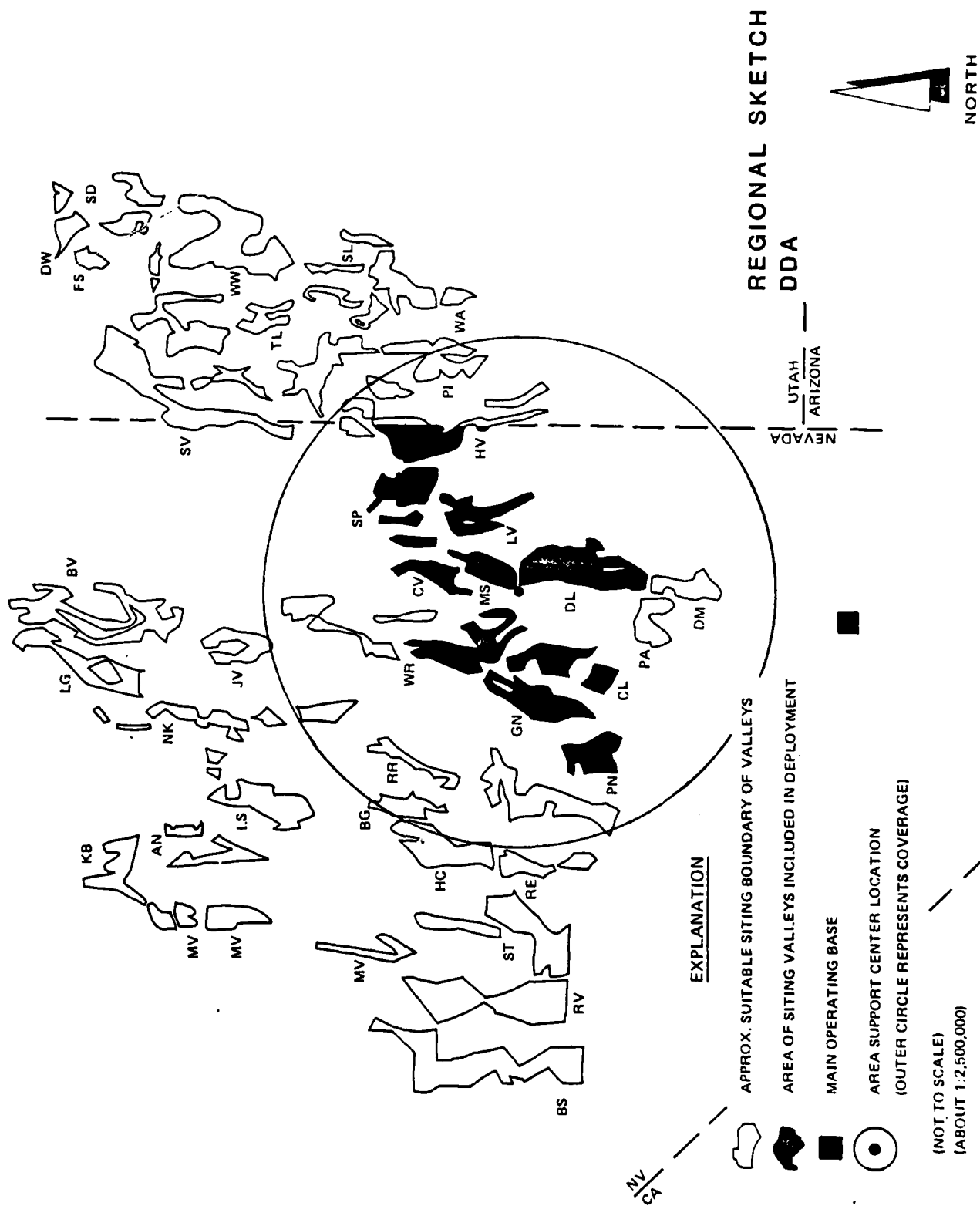
- A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water
- 13-11) Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	331
Dry Lake	DL	284	White River	WR	265
Garden	GN	161			
			TOTAL SHELTERS		2683
			TOTAL VALLEYS		14
			TOTAL ASCs		2



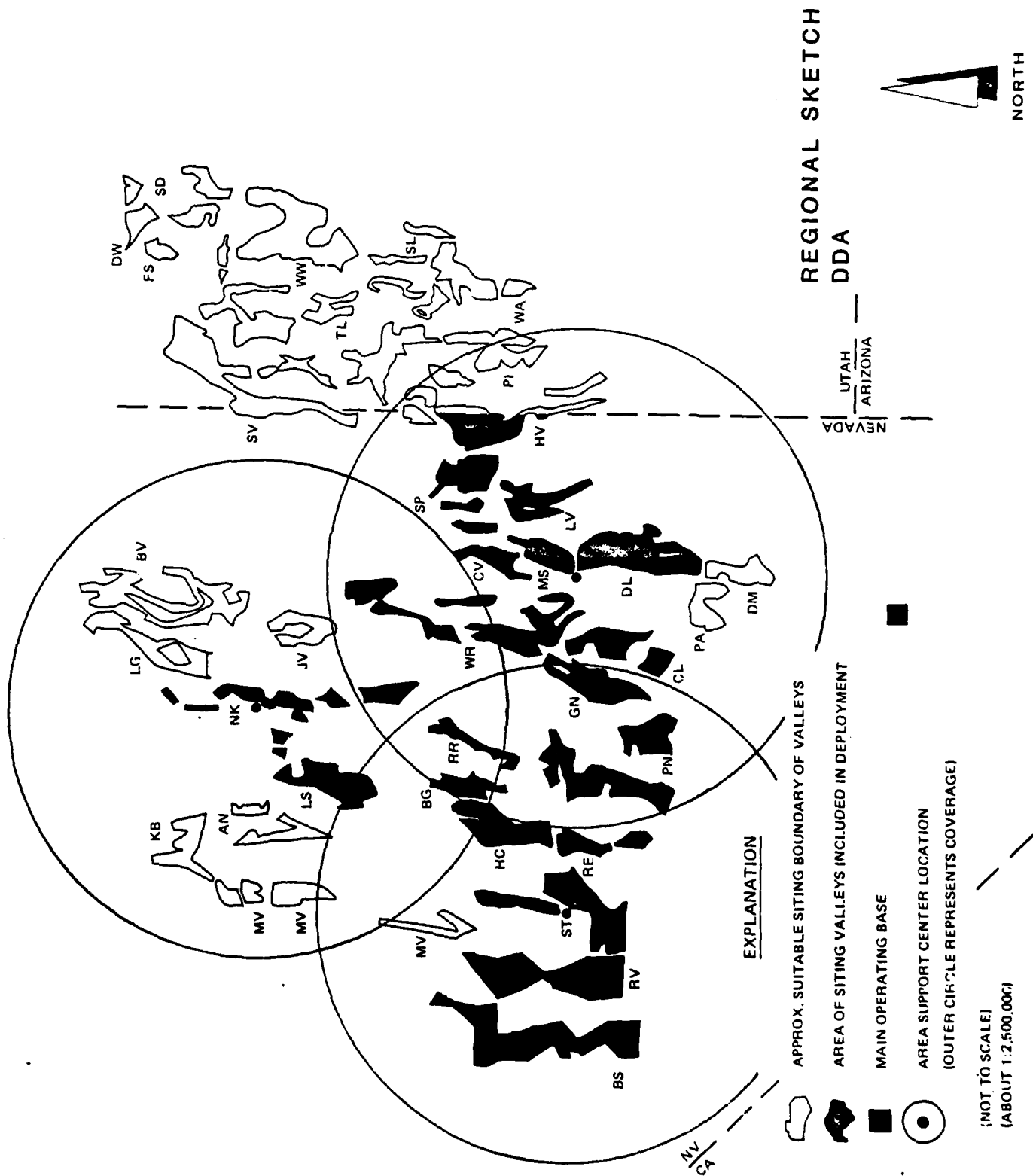
- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 13-11) Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	328	Spring	SP	82
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN	242			
			TOTAL SHELTERS		2732
			TOTAL VALLEYS		10
			TOTAL ASCs		1



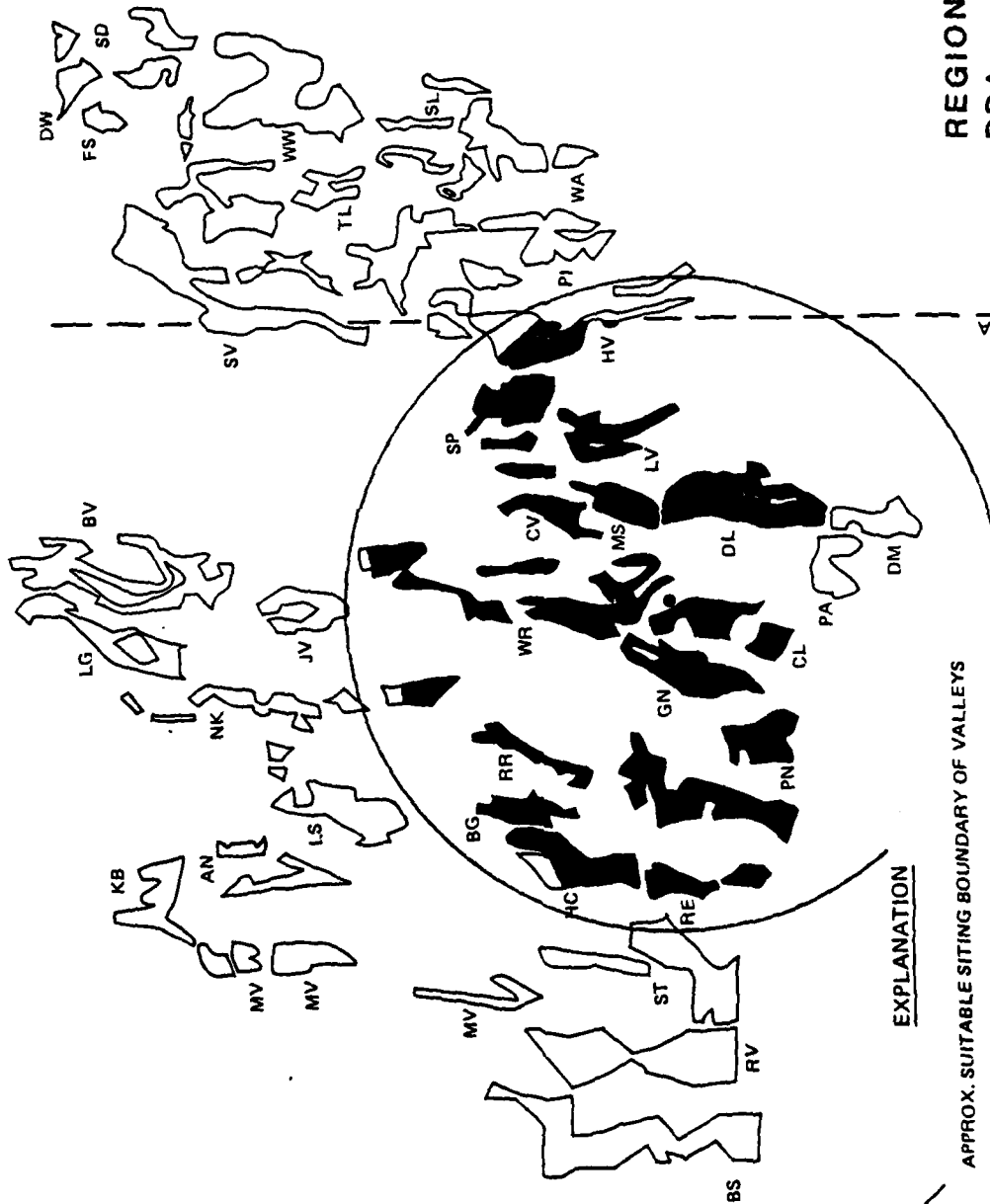
- C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water
- 13-11) Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	137
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV		Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DL	267	White River	WR	191
Garden	GN	126			
			TOTAL SHELTERS		2688
			TOTAL VALLEYS		19
			TOTAL ASCs		3



- D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water
- 13-11) Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	139
Fish Springs Flat	FS		Hot Creek	HC	123
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG	86	Penoyer	PN	219
Big Smoky	BS		Railroad	RR	375
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	271
Garden	GN	189			
			TOTAL SHELTERS		2667
			TOTAL VALLEYS		14
			TOTAL ASCs		1



EXPLANATION

APPROX. SUITABLE SITING BOUNDARY OF VALLEYS

AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT

MAIN OPERATING BASE

AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

DDA

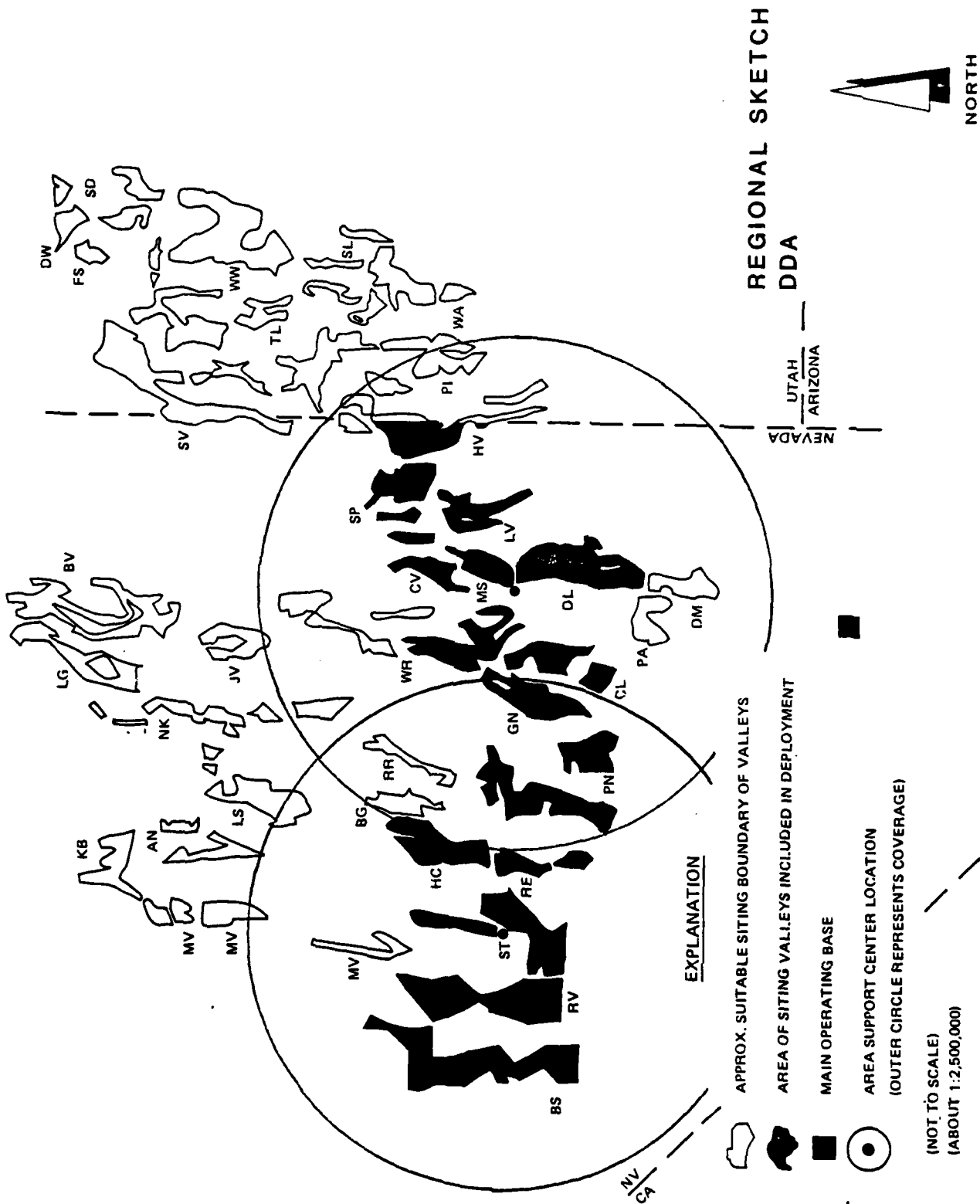
NEVADA
UTAH
ARIZONA



E) Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers

13-11) Best 2300 shelters - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Duqway	DW		Hamlin	HV	138
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	161
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	115
Big Smoky	BS	230	Railroad	RR	184
Butte	BV		Ralston	RV	207
Cave	CV	69	Reveille	RE	69
Coal	CL	138	Spring	SP	92
Delamar/Pahroc	DM		Stone Cabin	ST	184
Dry Lake	DL	230	White River	WR	184
Garden	GN	138			
			TOTAL SHELTERS		2346
			TOTAL VALLEYS		16
			TOTAL ASCs		2



4.0 1150 SHELTER OPTIONS

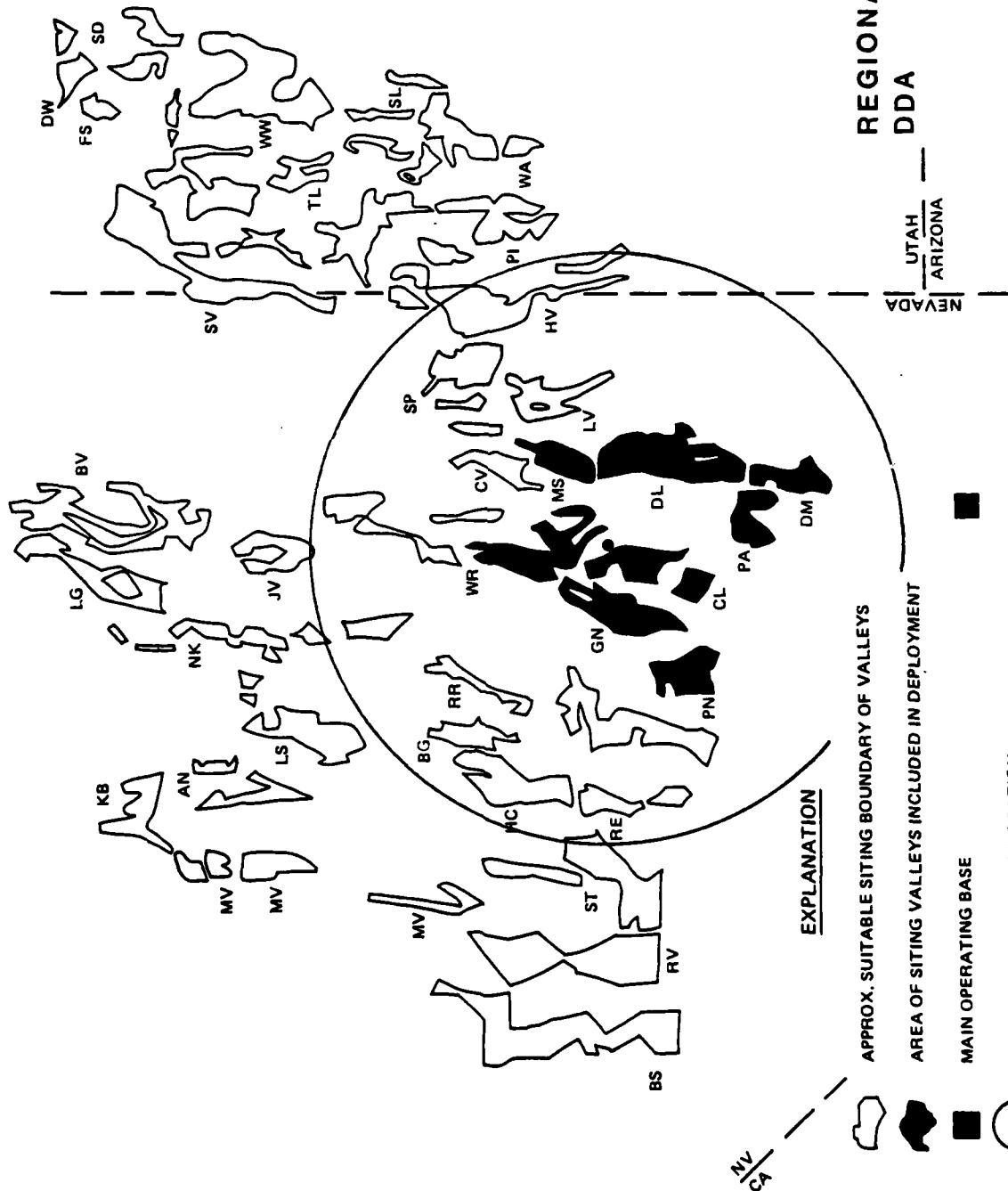
4.0 1150 SHELTER OPTIONS

This section contains options for 1150 shelters as specified in Section 1.1.

A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

14) Best 1150 shelters and 15 percent - Coyote MOB

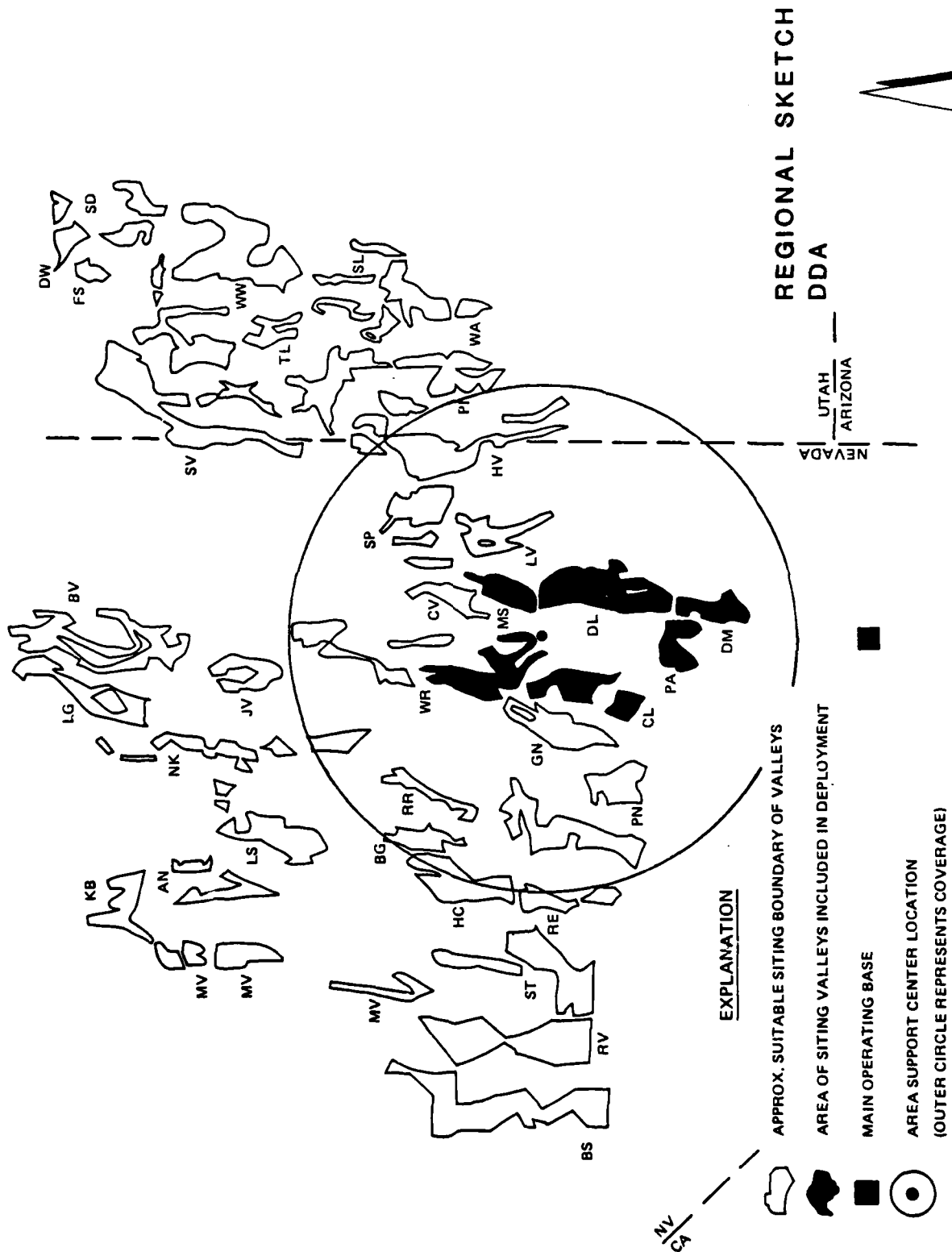
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	81
Whirlwind	WW		Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	219	Reveille	RE	
Coal	CL	170	Spring	SP	
Delamar/Pahroc	DM	284	Stone Cabin	ST	
Dry Lake	DL	161	White River	WR	265
Garden	GN				
			TOTAL SHELTERS		1392
			TOTAL VALLEYS		7
			TOTAL ASCs		1



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

14) Best 1150 shelters and 15 percent - Coyote MOB

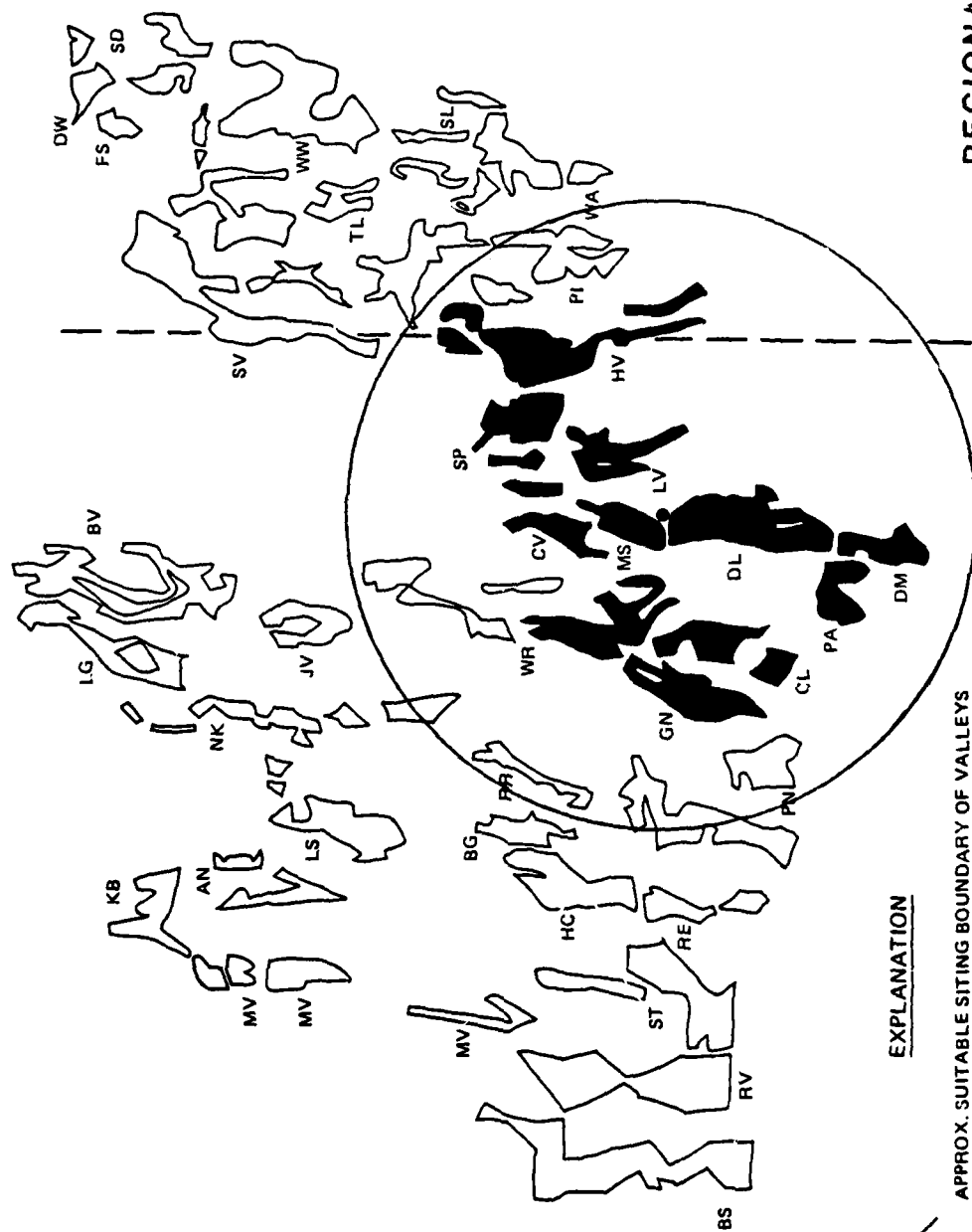
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL	328	Spring	SP	
Delamar/Pahroc	DM	255	Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		1529
			TOTAL VALLEYS		5
			TOTAL ASCS		1



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

14) Best 1150 shelters and 15 percent - Coyote MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	186
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stor. Cabin	ST	
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		1346
			TOTAL VALLEYS		10
			TOTAL ASCs		1



EXPLANATION

- APPROX. SITTING BOUNDARY OF VALLEYS
- AREA OF SITTING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

NEVADA
UTAH
ARIZONA
DDA



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

14) Best 1150 shelters and 15 percent - Coyote MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL	302	Spring	SP	
Delamar/Pahroc	DM	207	Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		1392
			TOTAL VALLEYS		6
			TOTAL ASCs		1

AD-A113 150

FUGRO NATIONAL INC LONG BEACH CA

F/C 16/1

IX SITING INVESTIGATION, REGIONAL STUDIES FOR VALLEY CLUSTERING--ETC(U)

ALB 81

FO4704-20-C-0006

ML

UNCLASSIFIED

FN-81-AUG-1

3 of 4

2000

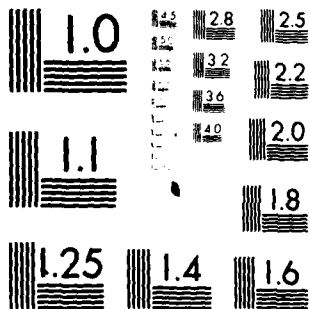
END

DATE _____

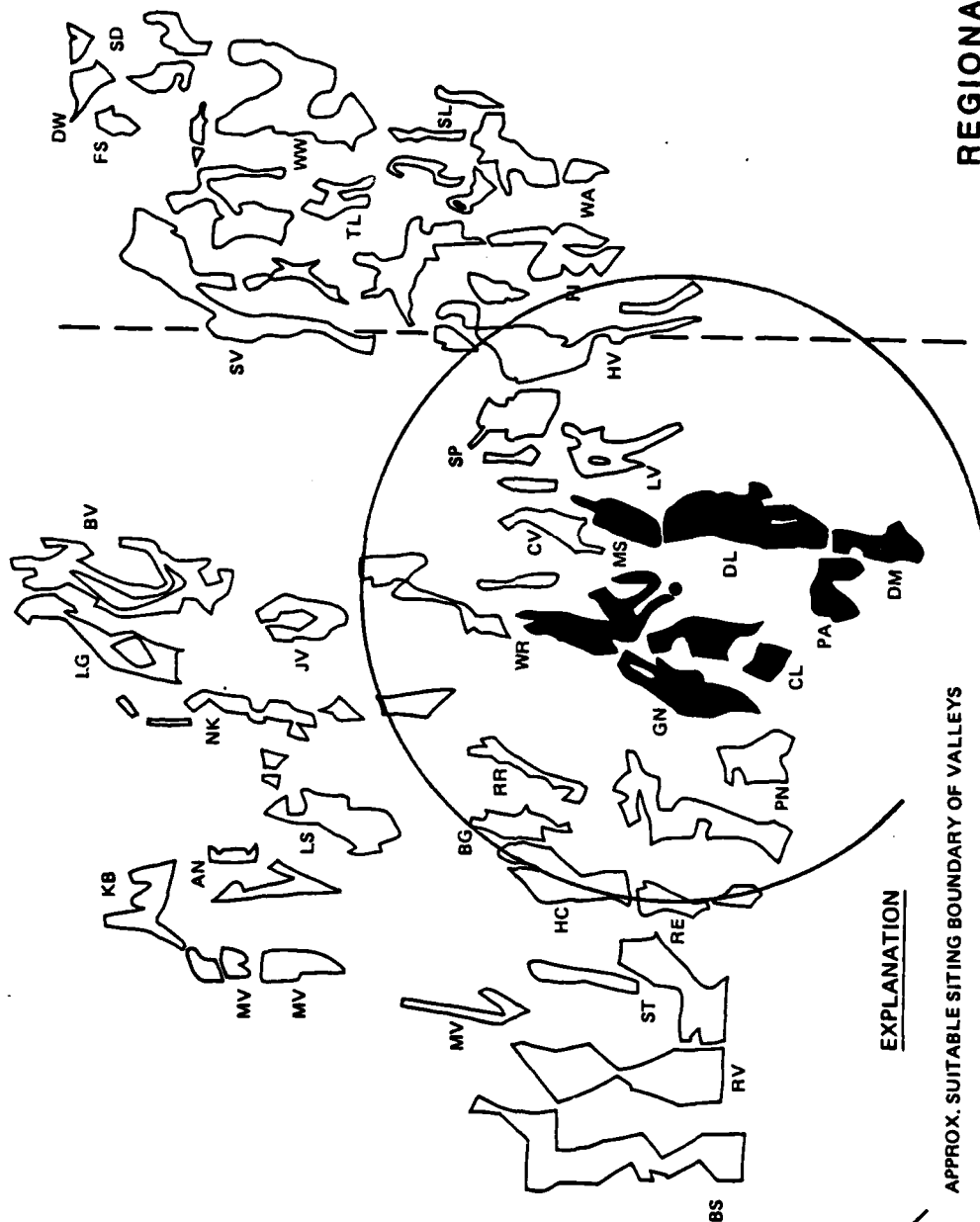
FILMED



3150



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

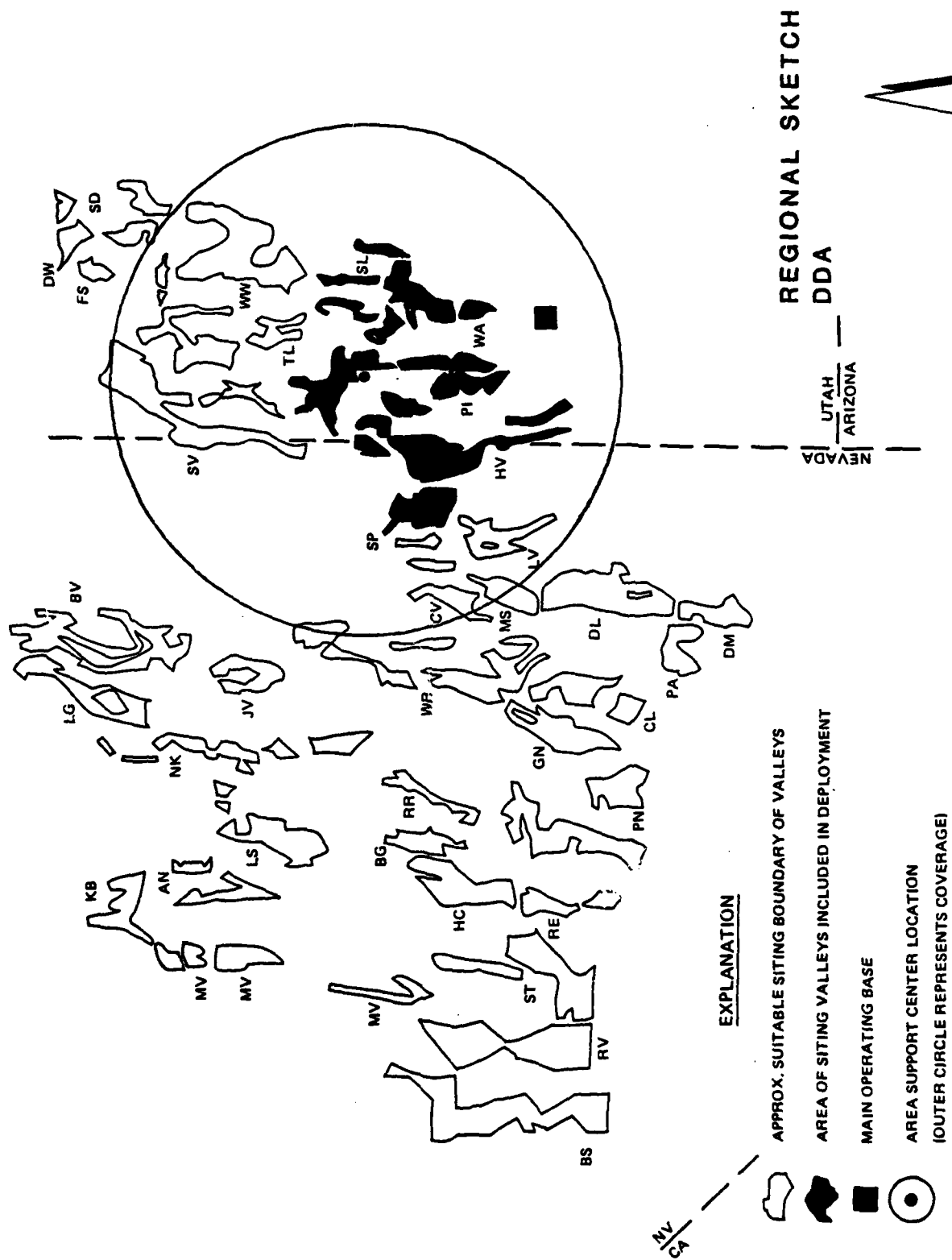
NEVADA
UTAH
ARIZONA
DDA



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

15) Best 1150 shelters and 15 percent - Milford MOB

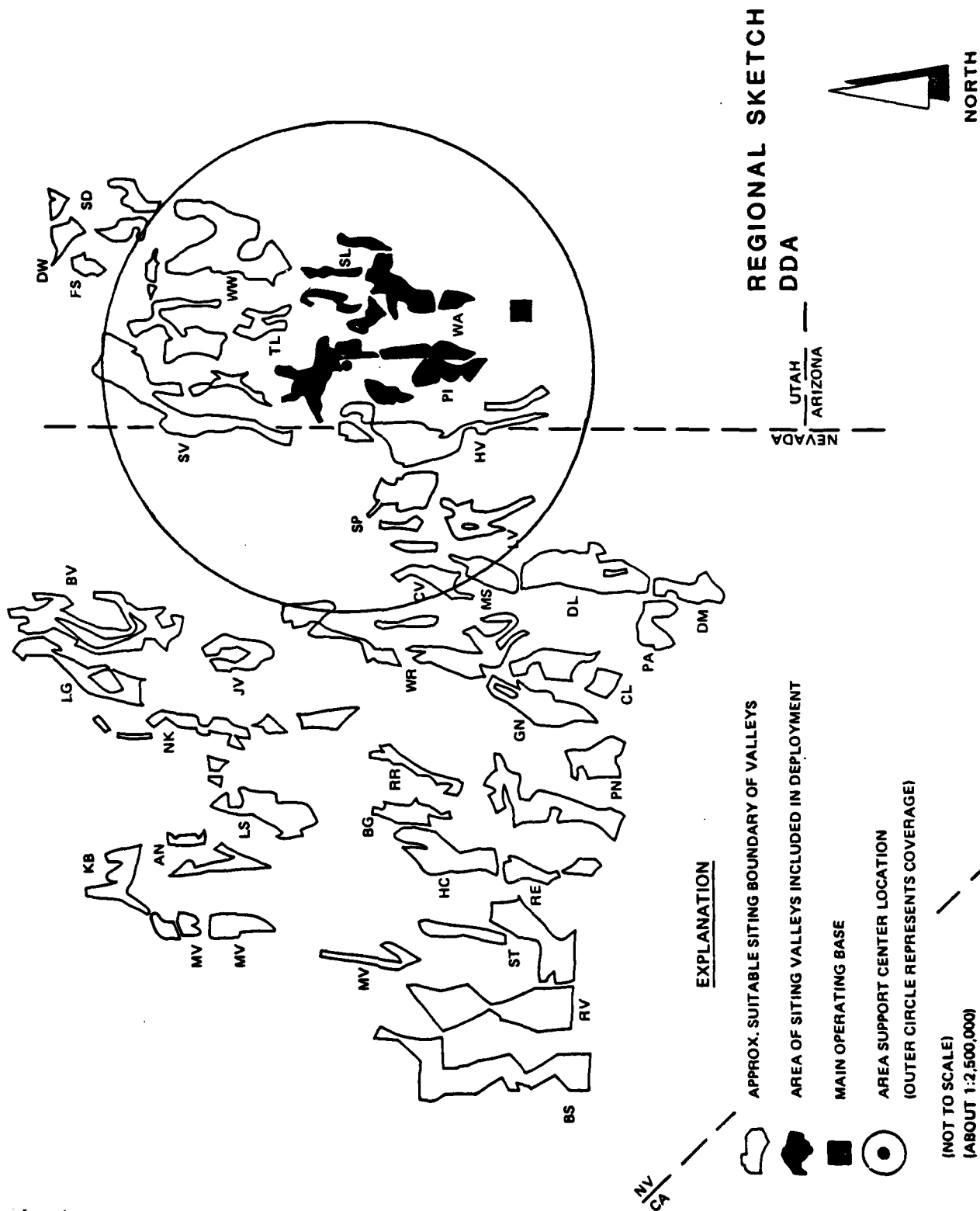
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	70	Lake	LV	
Snake	SV	247	Little Smoky	LS	
Tule	TL	77	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW	29	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	121
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1339
			TOTAL VALLEYS		8
			TOTAL ASCs		1



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

15) Best 1150 shelters and 15 percent - Milford MOB

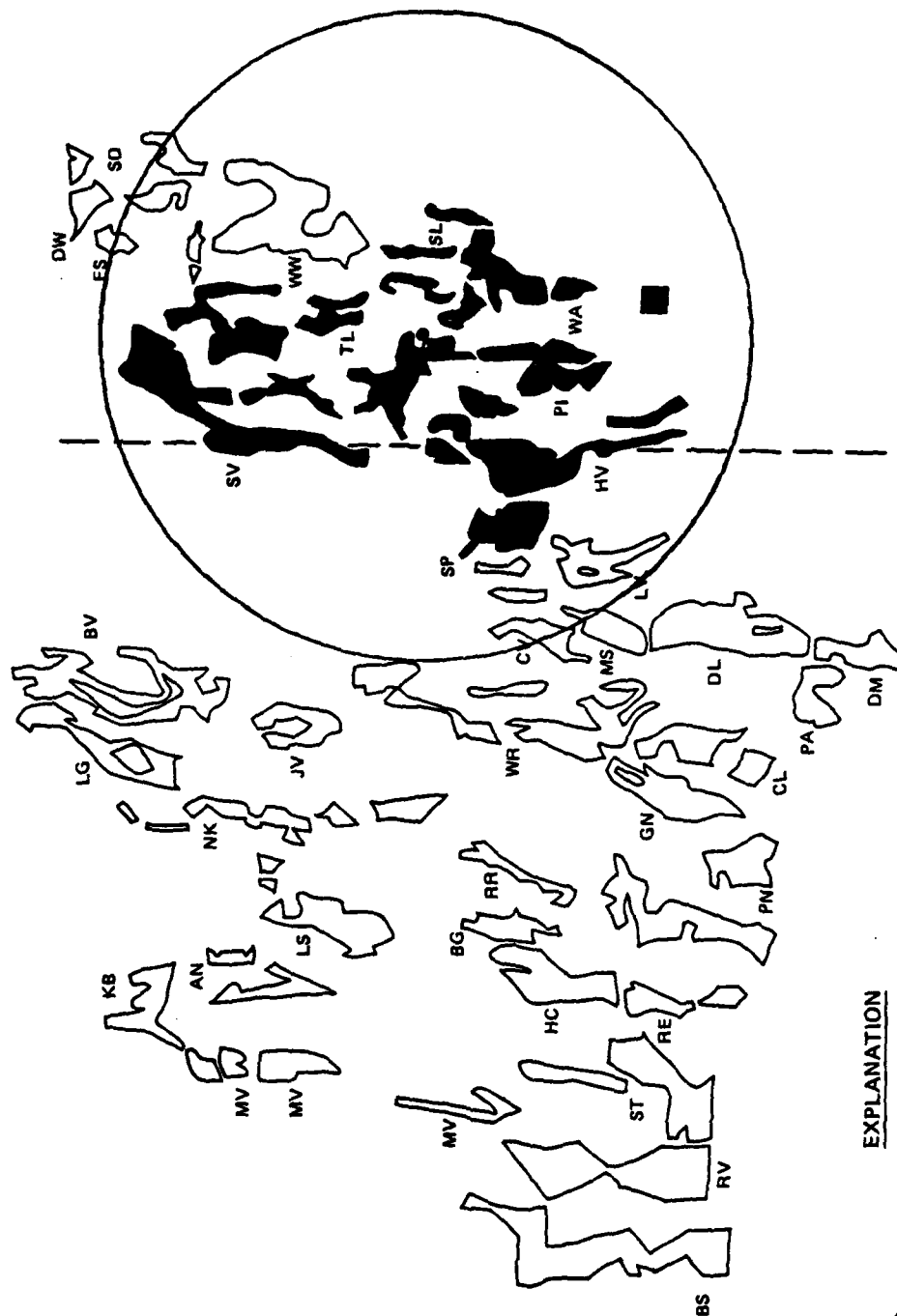
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	105	Lake	LV	
Snake	SV	370	Little Smoky	LS	
Tule	TL	116	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW	44	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1329
			TOTAL VALLEYS		6
			TOTAL ASCs		1



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

15) Best 1150 shelters and 15 percent - Milford MOB

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	186
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	57	Lake	LV	
Snake	SV	390	Little Smoky	LS	
Tule	TL	198	Long	LG	
Wah Wah	WA	175	Monitor	MV	
Whirlwind	WW	21	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	68
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1337
			TOTAL VALLEYS		8
			TOTAL ASCS		1



REGIONAL SKETCH

NEVADA ——— UTAH ——— ARIZONA ——— DDA



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

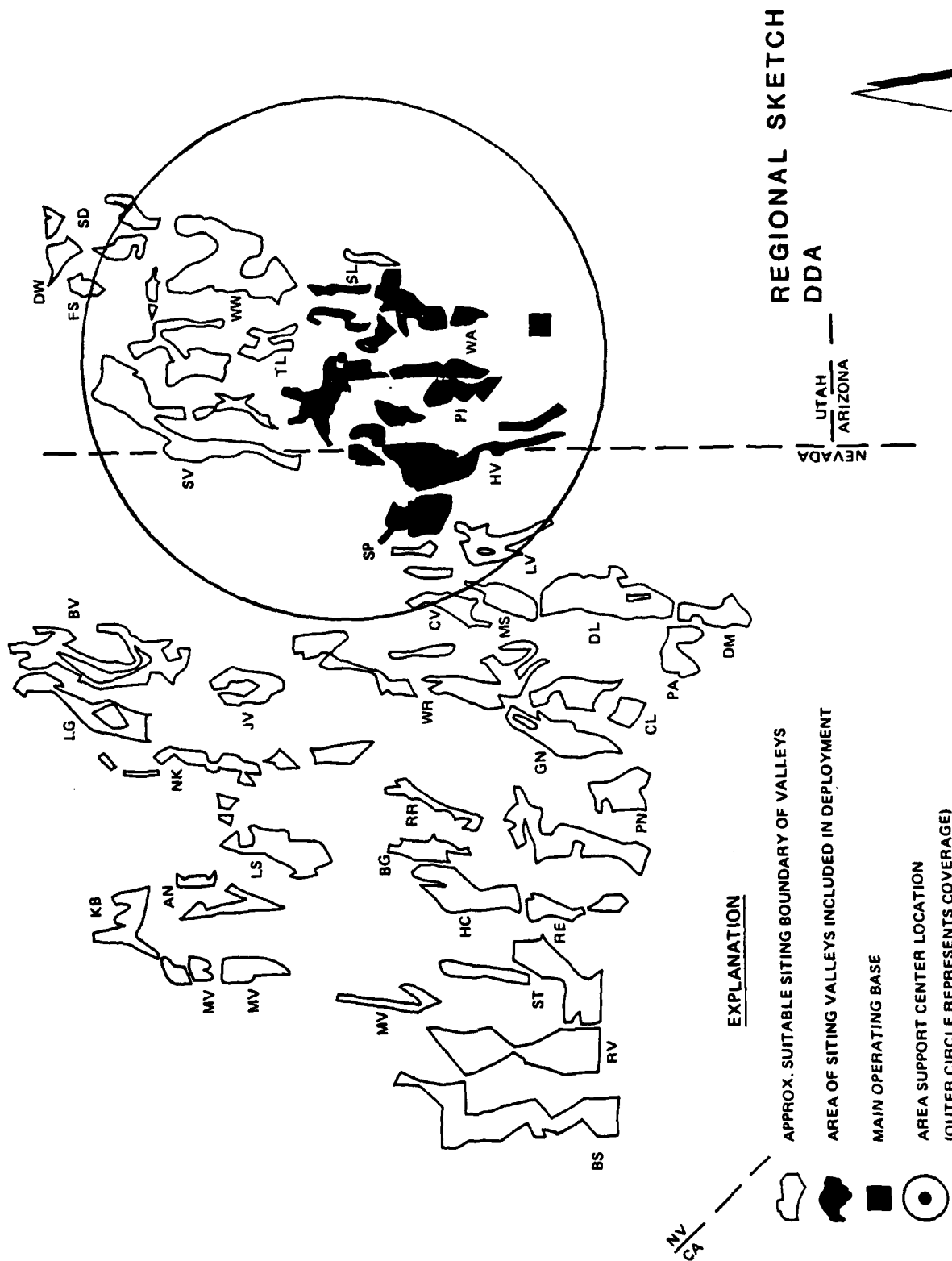
(NOT TO SCALE)
(ABOUT 1:2,500,000)

NV
CA

D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

15) Best 1150 shelters and 15 percent - Milford MOB

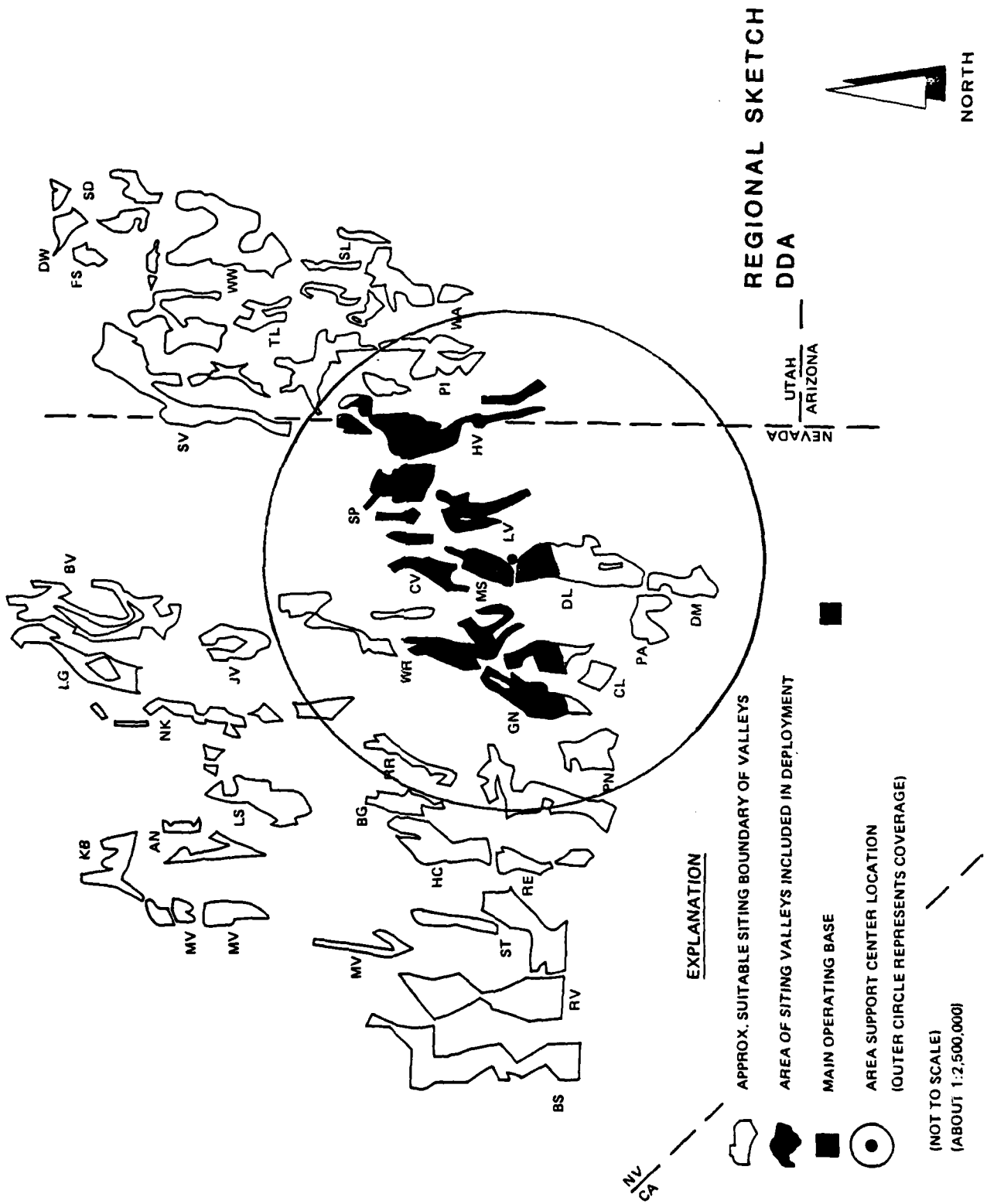
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV	222	Little Smoky	LS	
Tule	TL	62	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW	32	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	102
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1323
			TOTAL VALLEYS		7
			TOTAL ASCs		1



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

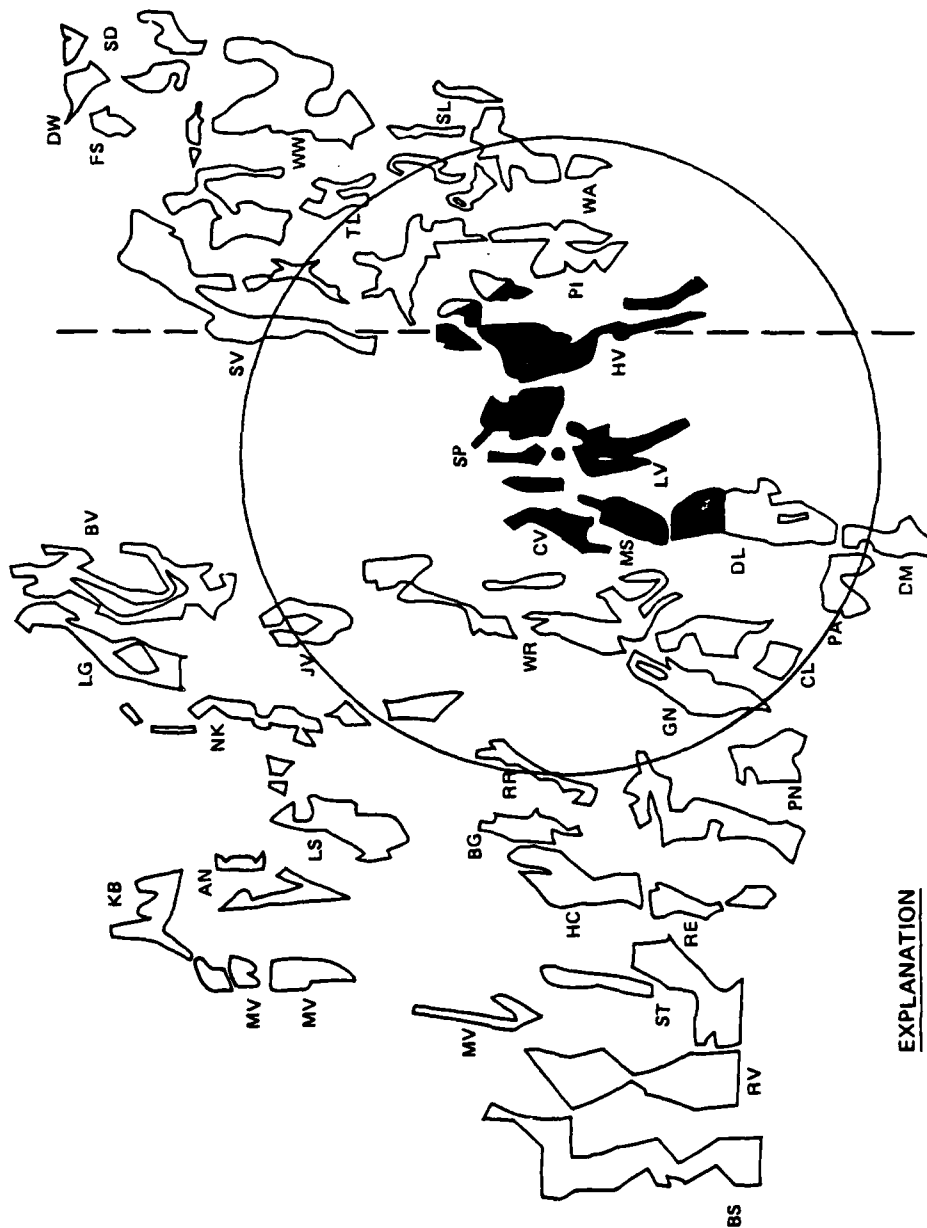
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	300
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Levier Desert	SD		Kobeh	KB	
Levier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Snake	TL		Long	LG	
Snake	WA		Monitor	MV	
Snake	WW		Muleshoe	MS	81
Whirlwind	AN		Newark	NK	
Antelope	BG		Penoyer	PN	
Big Sand Springs	BS		Railroad	RR	
Big Smoky	BV		Ralston	RV	
Butte	CV	79	Reveille	RE	
Cave	CL	115	Spring	SP	121
Coal	DM		Stone Cabin	ST	
Delamar/Pahroc	DL	95	White River	WR	265
Dry Lake	GN	110			
Garden					
			TOTAL SHELTERS		1357
			TOTAL VALLEYS		9
			TOTAL ASCs		1



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	450
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	39	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	182
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	142	White River	WR	
Garden	GN				
			TOTAL SHELTERS		1339
			TOTAL VALLEYS		7
			TOTAL ASCs		1



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

DDA

NEVADA
UTAH
ARIZONA

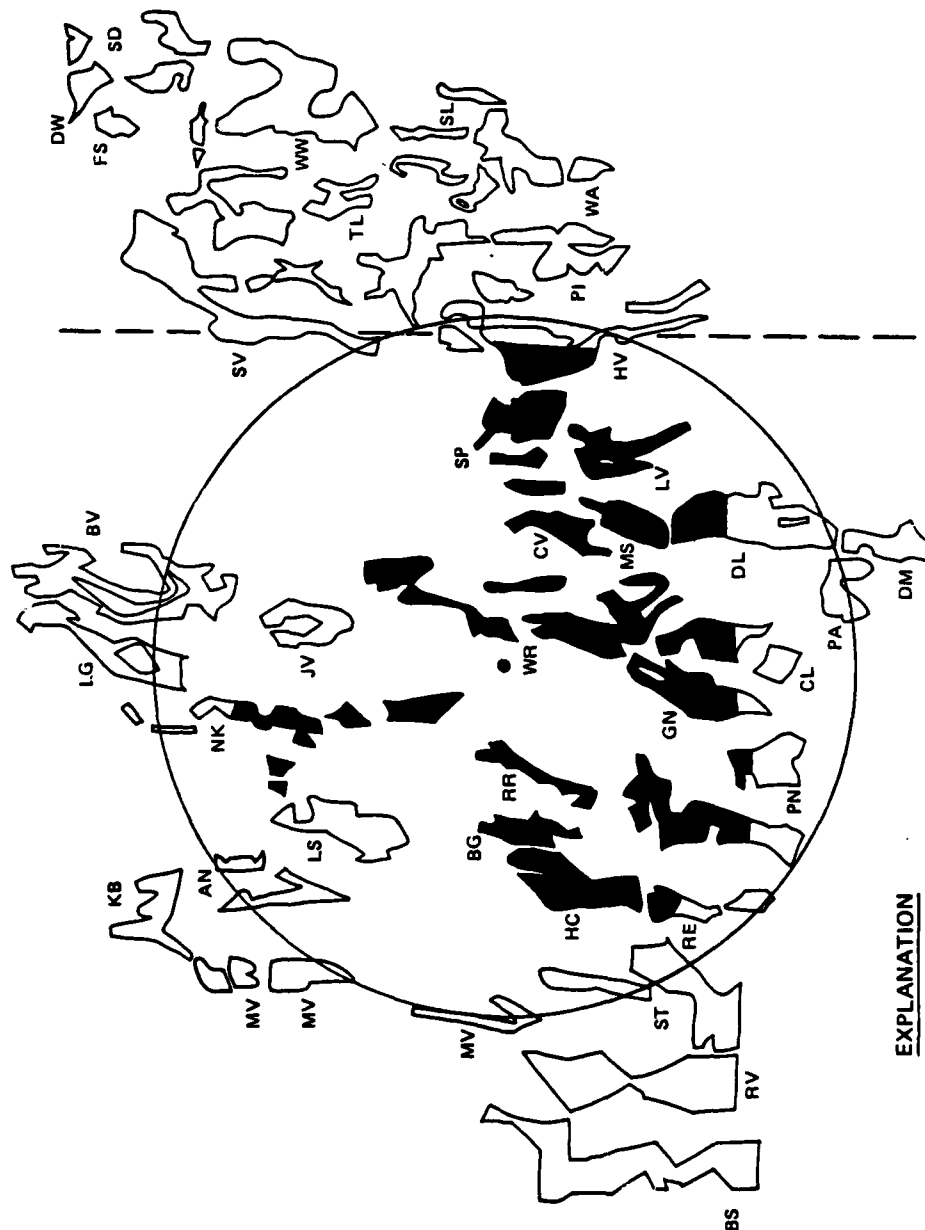


NORTH

C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	115
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KR	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	77
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS		Railroad	RR	213
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	22
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	89	White River	WR	191
Garden	GN	86			
			TOTAL SHELTERS		1380
			TOTAL VALLEYS		15
			TOTAL ASCS		1



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



NORTH

EXPLANATION

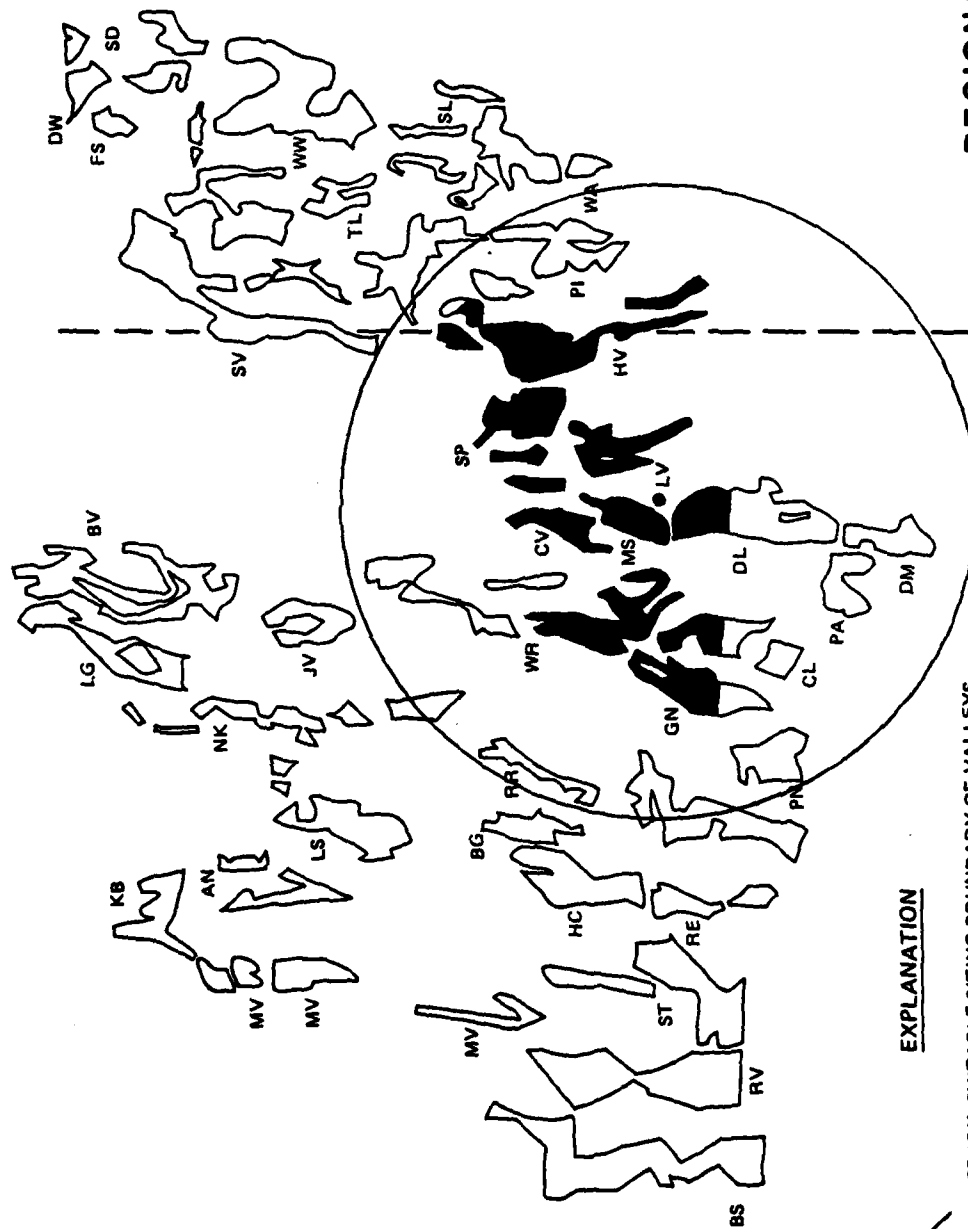
- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	252
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	134	White River	WR	190
Garden	GN	129			
			TOTAL SHELTERS		1316
			TOTAL VALLEYS		9
			TOTAL ASCs		1



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

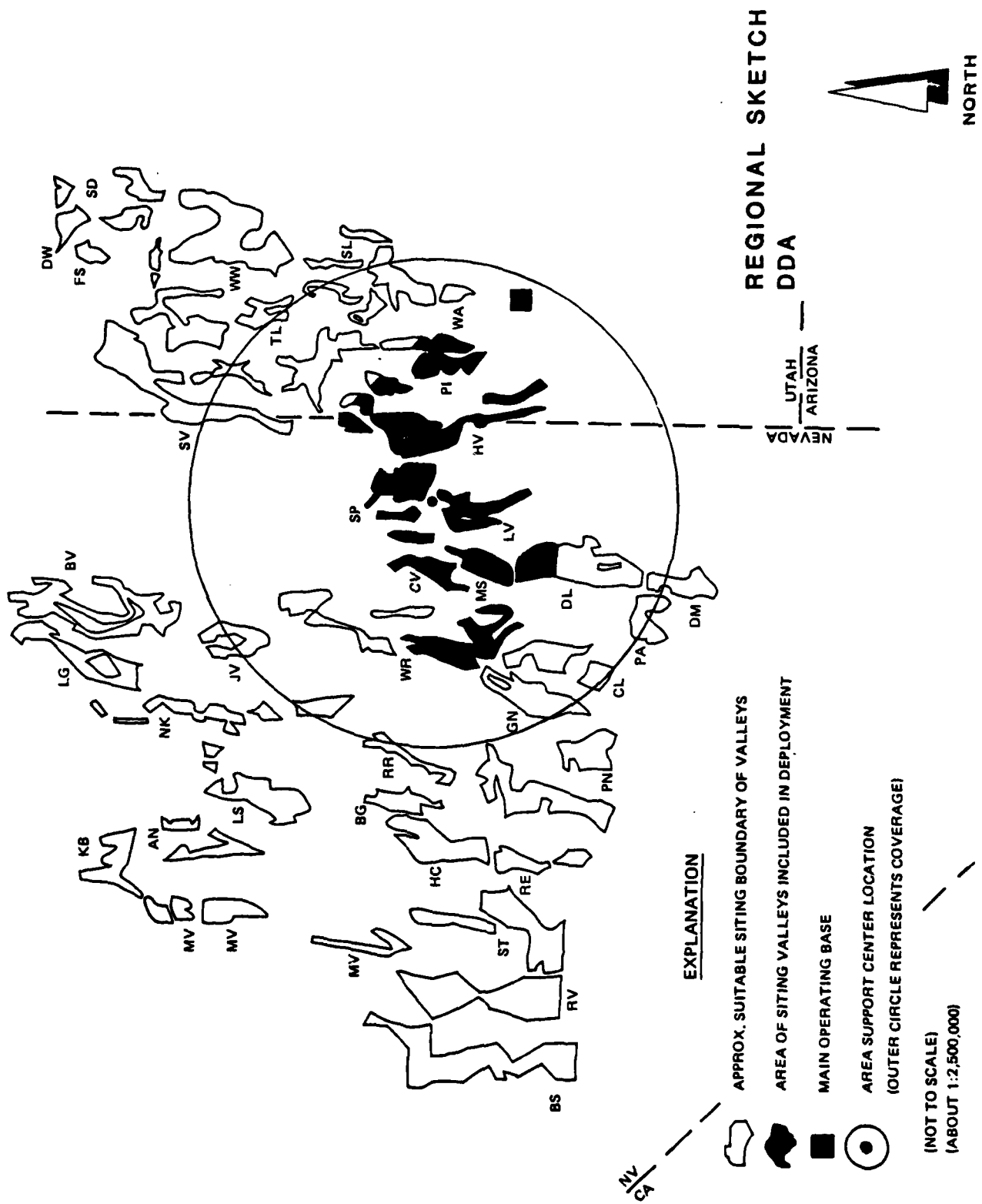
NEVADA — DDA
UTAH —
ARIZONA —



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

17) Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

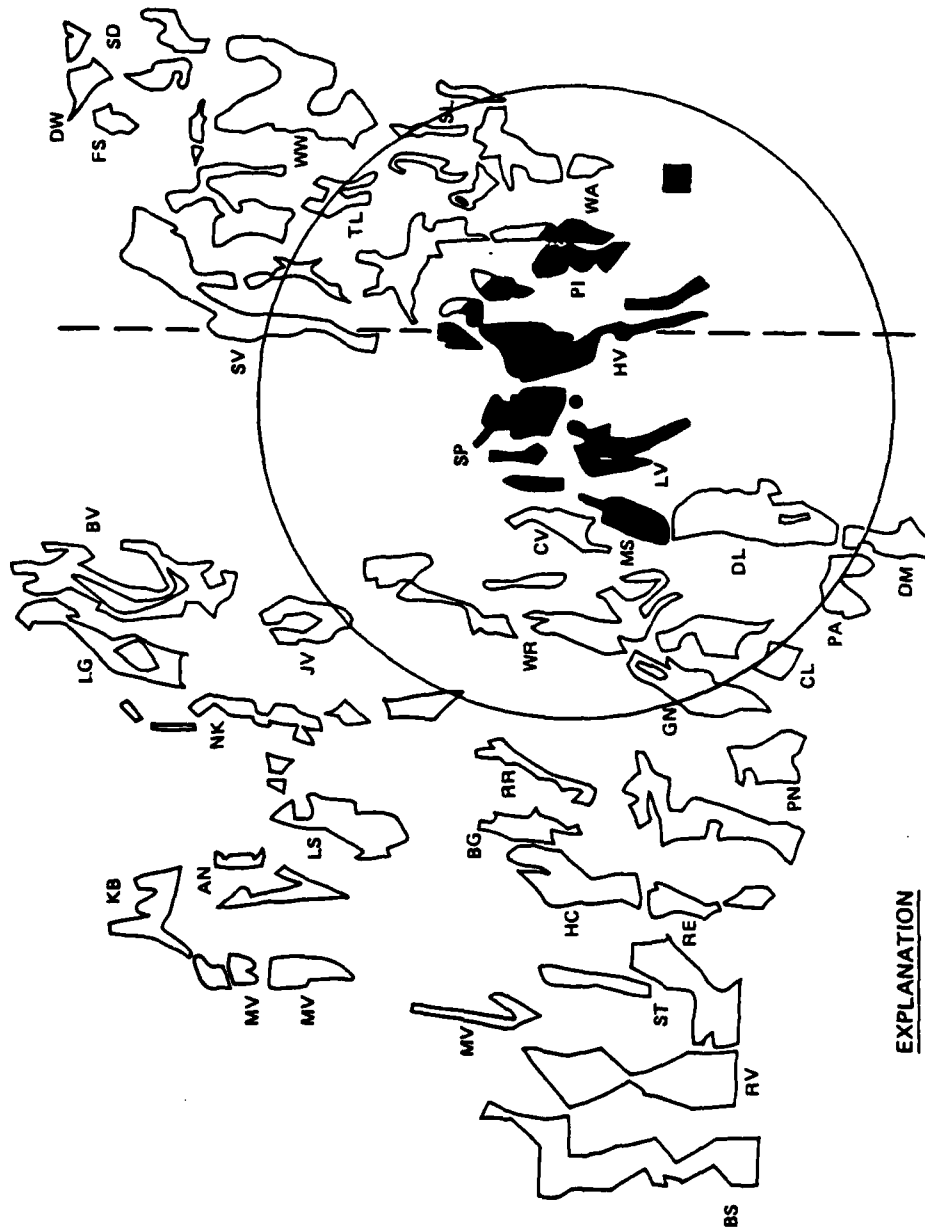
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	300
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	166	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV	26	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	
Coal	CL		Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	95	White River	WR	265
Garden	GN				
			TOTAL SHELTERS		1324
			TOTAL VALLEYS		9
			TOTAL ASCs		1



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

17) Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	450
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV	39	Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	182
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1328
			TOTAL VALLEYS		6
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



EXPLANATION

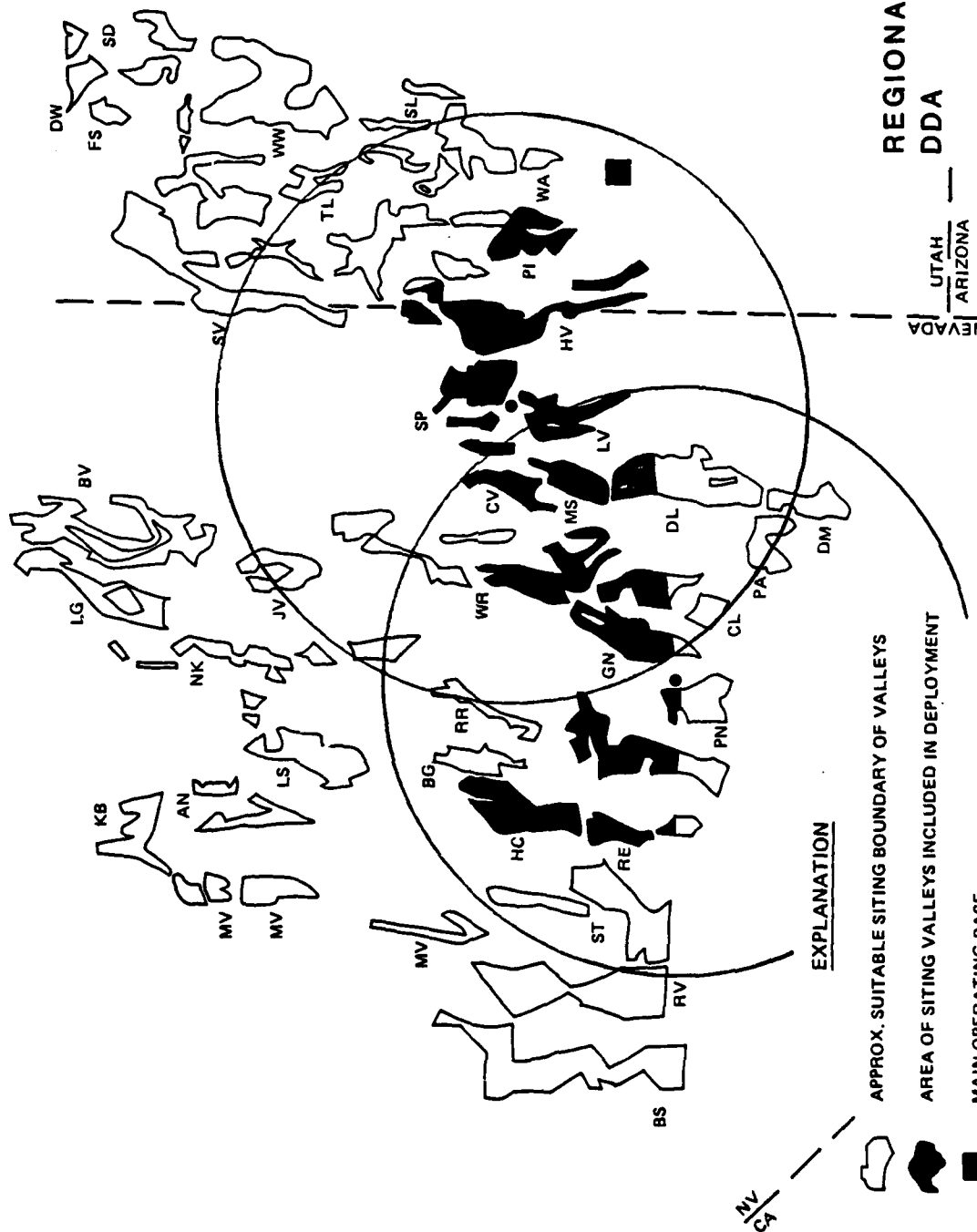
- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

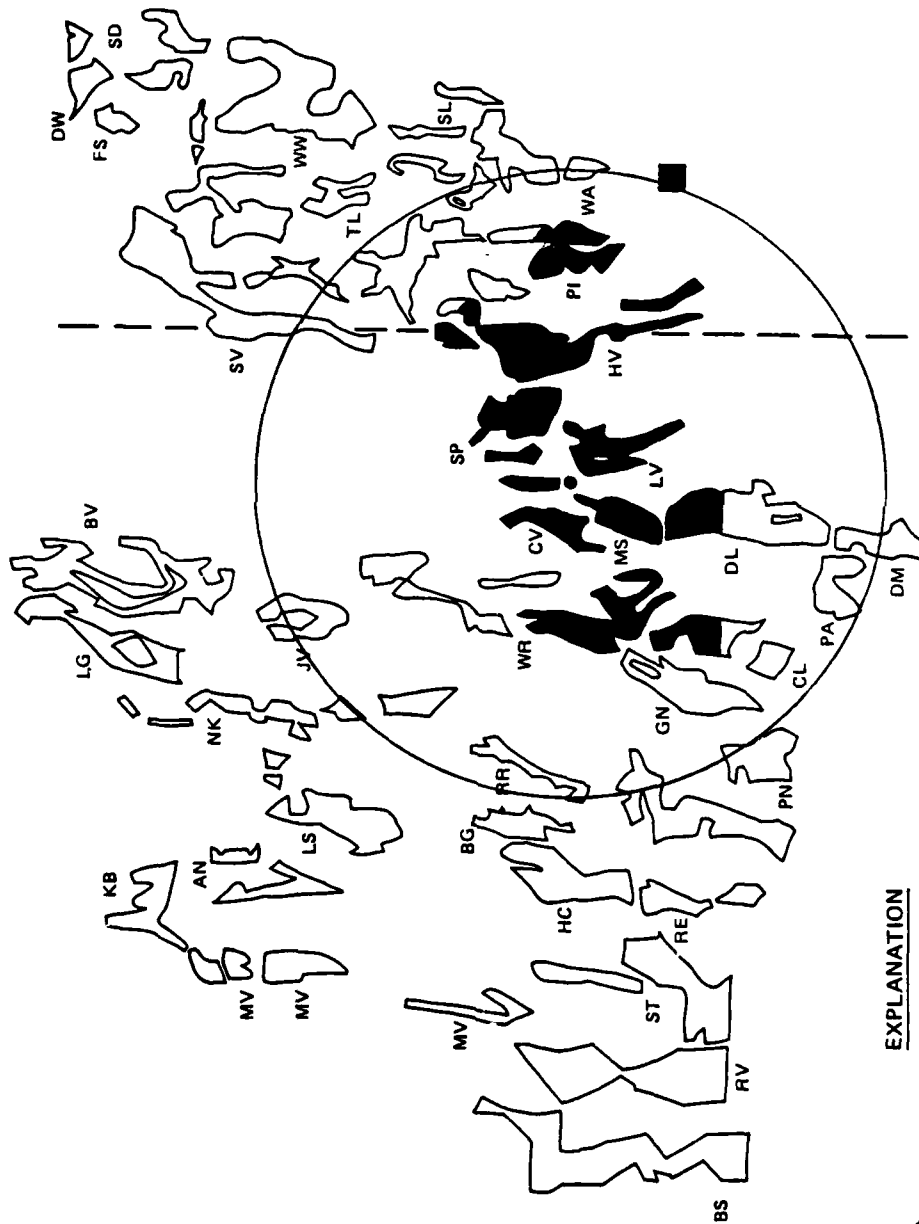
17) Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	168
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI	161	Jakes	JV	
Sevier Desert	SD		Kobeh	KR	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	24
Big Smoky	BS		Railroad	RR	104
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	59
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	89	White River	WR	127
Garden	GN	86			
			TOTAL SHELTERS		1324
			TOTAL VALLEYS		14
			TOTAL ASCs		2



- D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water
- 17) Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	252
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	102
Coal	CL	159	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	134	White River	WR	190
Garden	GN				
			TOTAL SHELTERS		1429
			TOTAL VALLEYS		9
			TOTAL ASCs		1



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)
- (NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

DDA

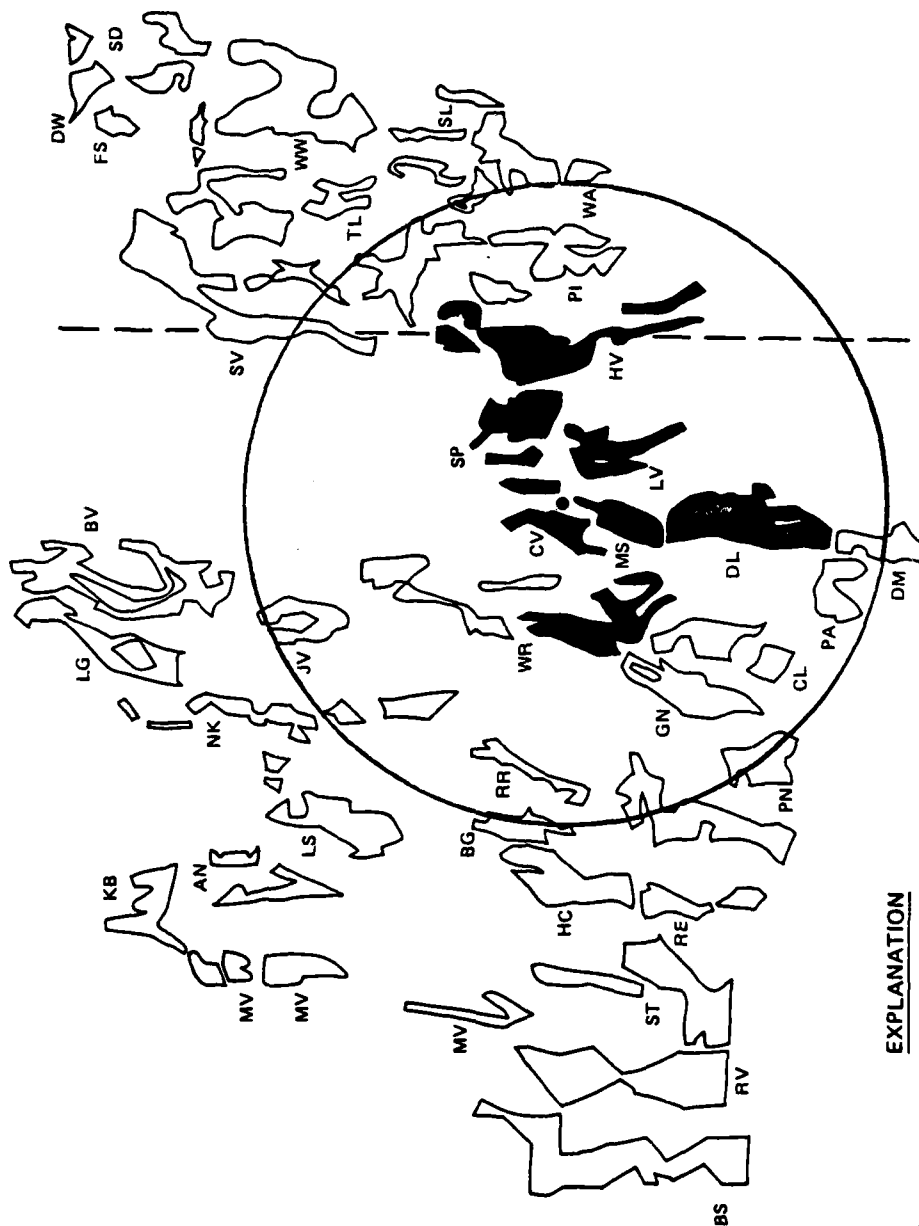
UTAH
ARIZONA
NEVADA



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water





18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	
Coal	CL		Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	284	White River	WR	265
Garden	GN				
			TOTAL SHELTERS		1354
			TOTAL VALLEYS		7
			TOTAL ASCs		1



NV
CA

EXPLANATION

-  APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
-  AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
-  MAIN OPERATING BASE
-  AREA SUPPORT CENTER LOCATION (OUTER CIRCLE REPRESENTS COVERAGE)

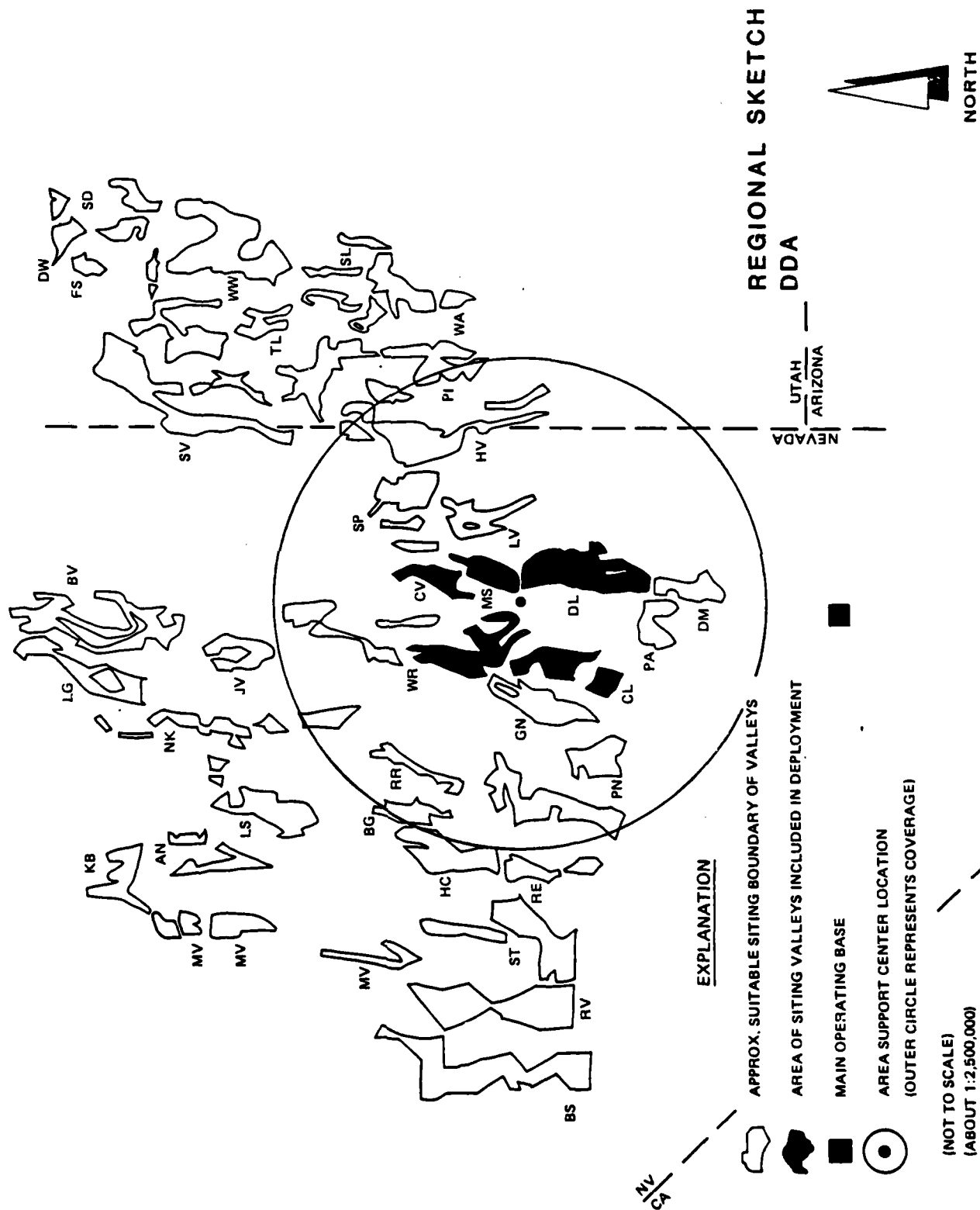
REGIONAL SKETCH

NEVADA
UTAH
ARIZONA
DDA

B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

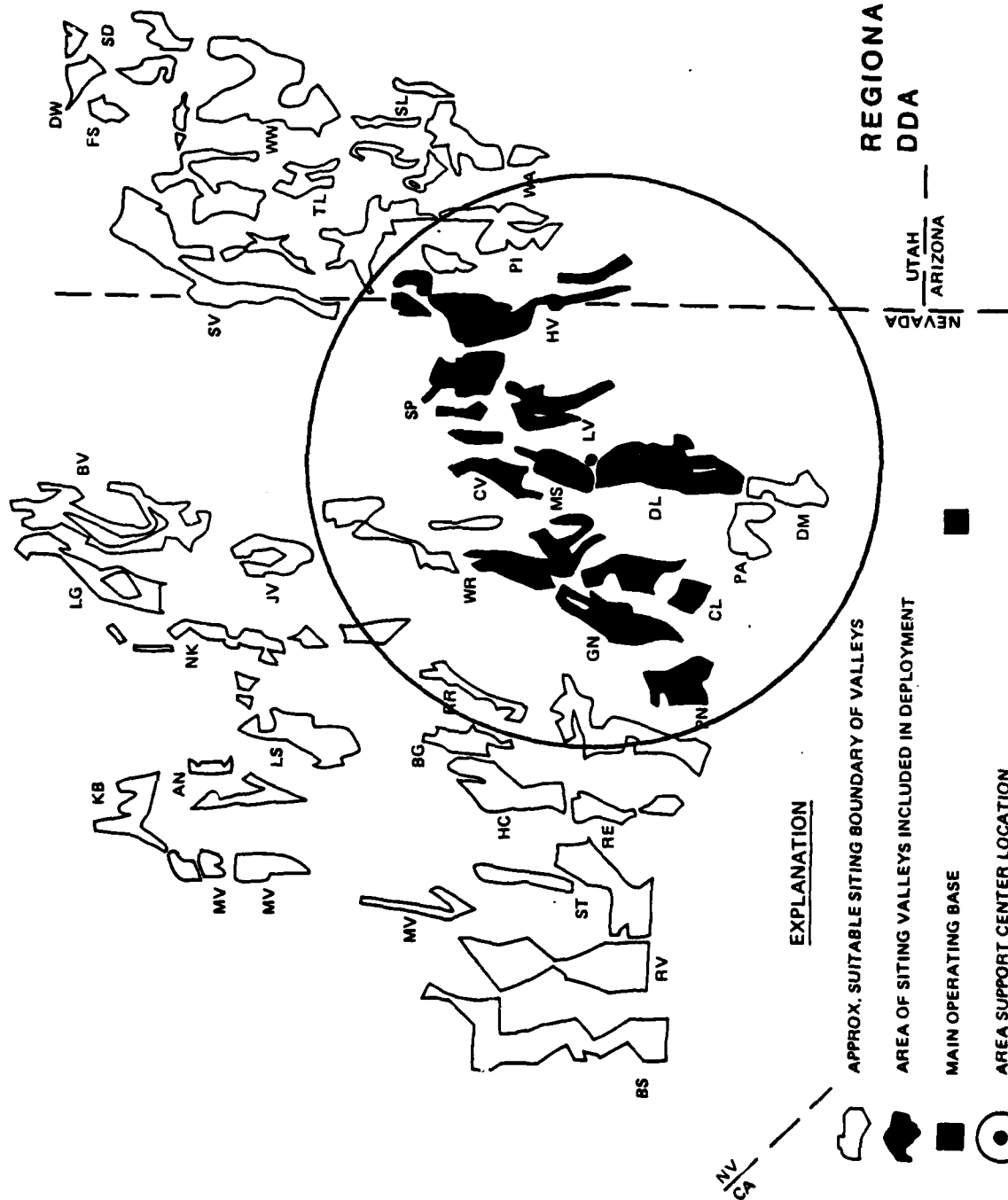
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	122
Whirlwind	WW		Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	328	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		1392
			TOTAL VALLEYS		5
			TOTAL ASCs		1



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

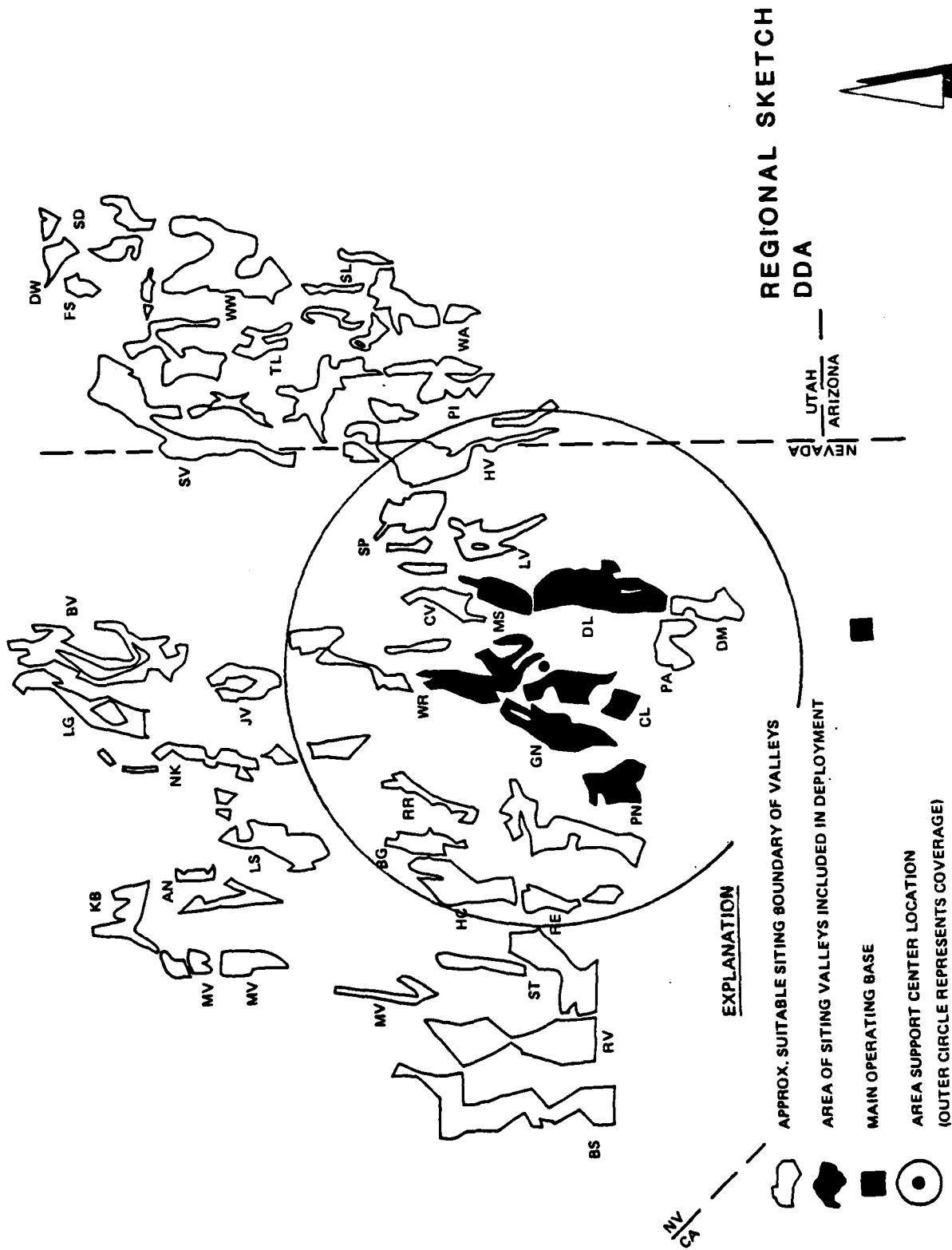
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	186
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	94
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		1354
			TOTAL VALLEYS		10
			TOTAL ASCs		1



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	104
Whirlwind	WW		Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL	302	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		1404
			TOTAL VALLEYS		6
			TOTAL ASCs		1



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

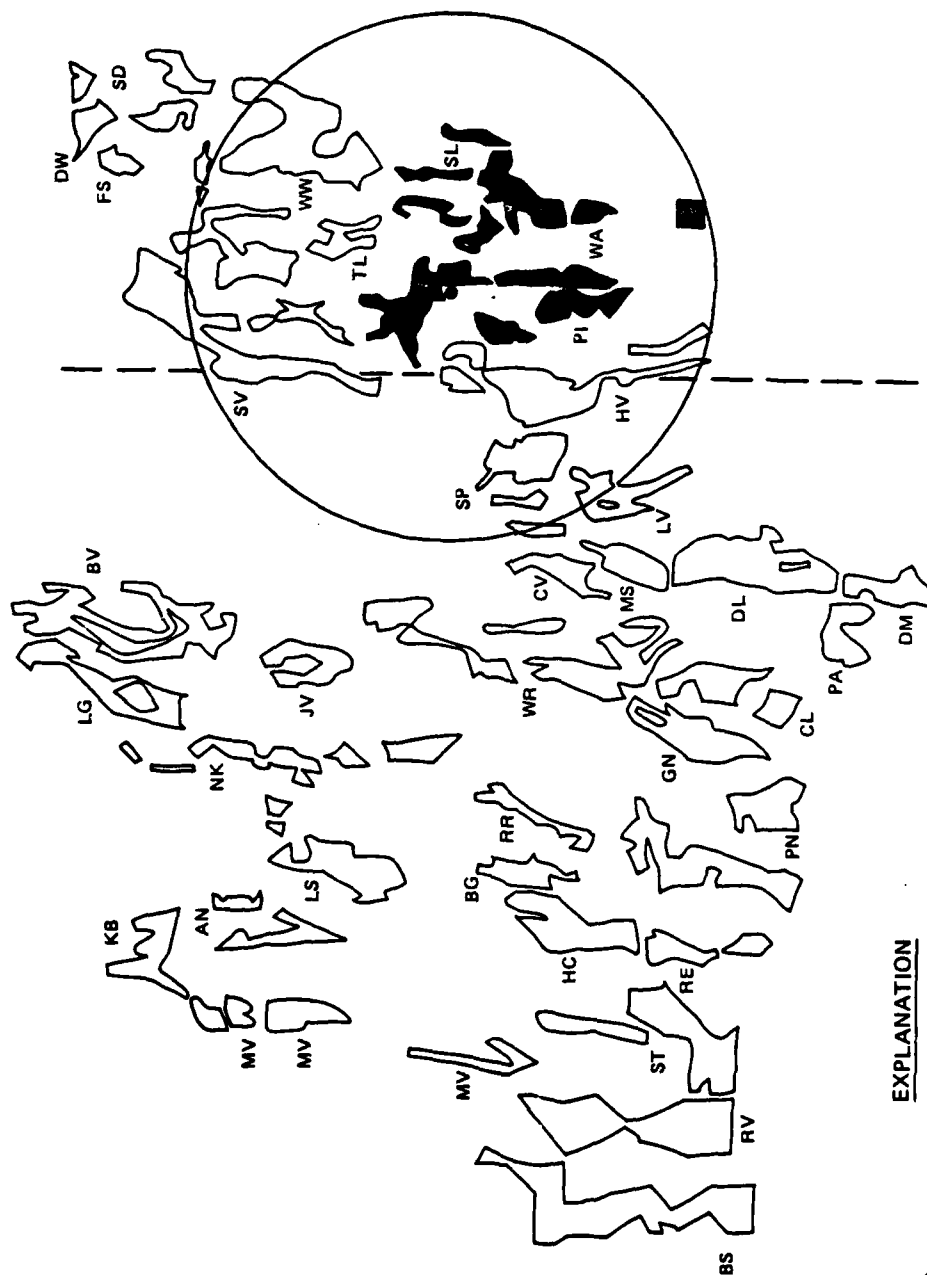
19) Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	70	Lake	LV	
Snake	SV	247	Little Smoky	LS	
Tule	TL	77	Long	LG	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WW	29	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	121
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1339
			TOTAL VALLEYS		8
			TOTAL ASCs		1

B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

19) Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	105	Lake	LV	
Snake	SV	370	Little Smoky	LS	
Tule	TL	116	Long	LG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	WW	44	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1329
			TOTAL VALLEYS		6
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

NEVADA
UTAH
ARIZONA



NORTH

EXPLANATION

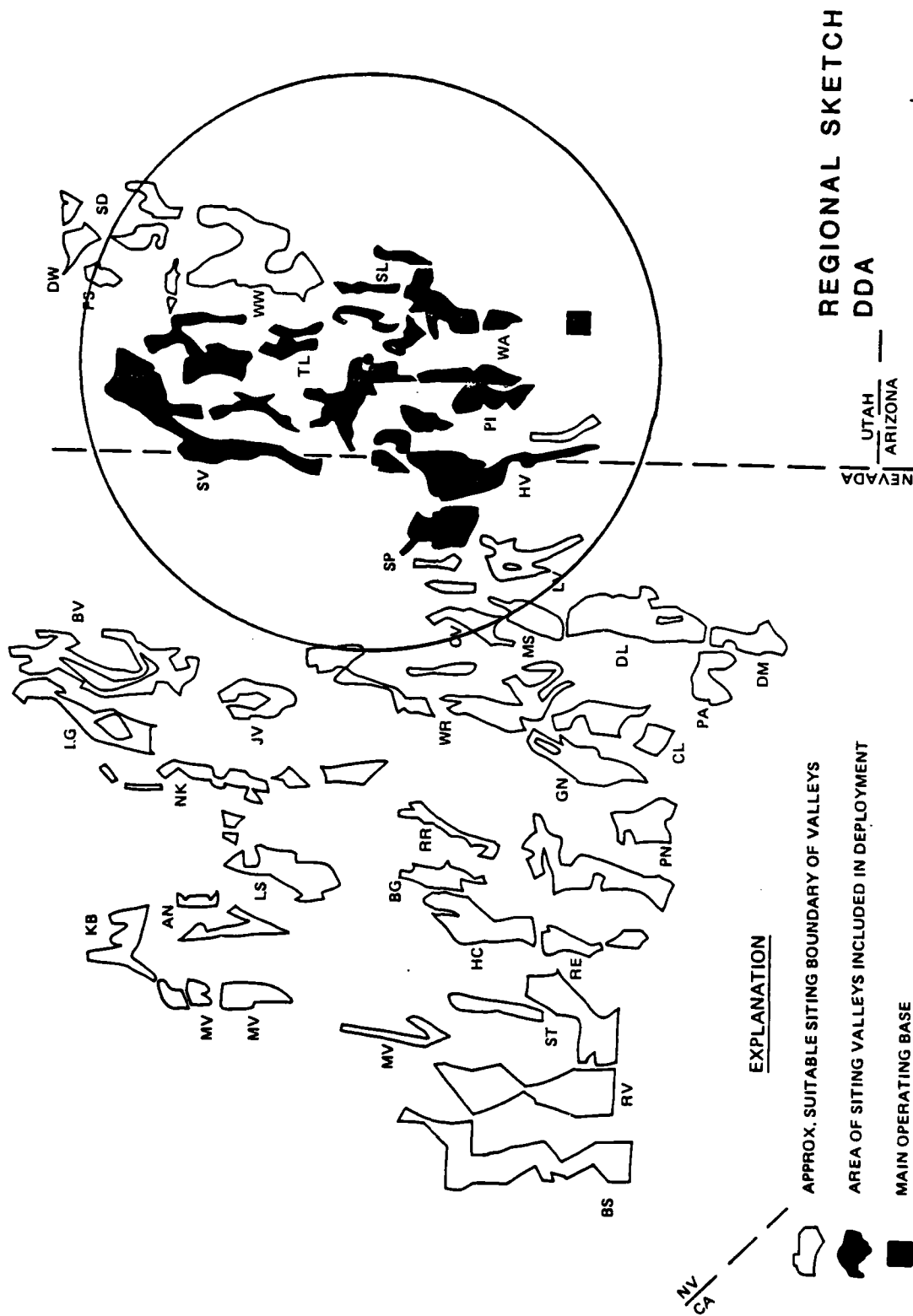
- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

C) Horizontal shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

19) Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

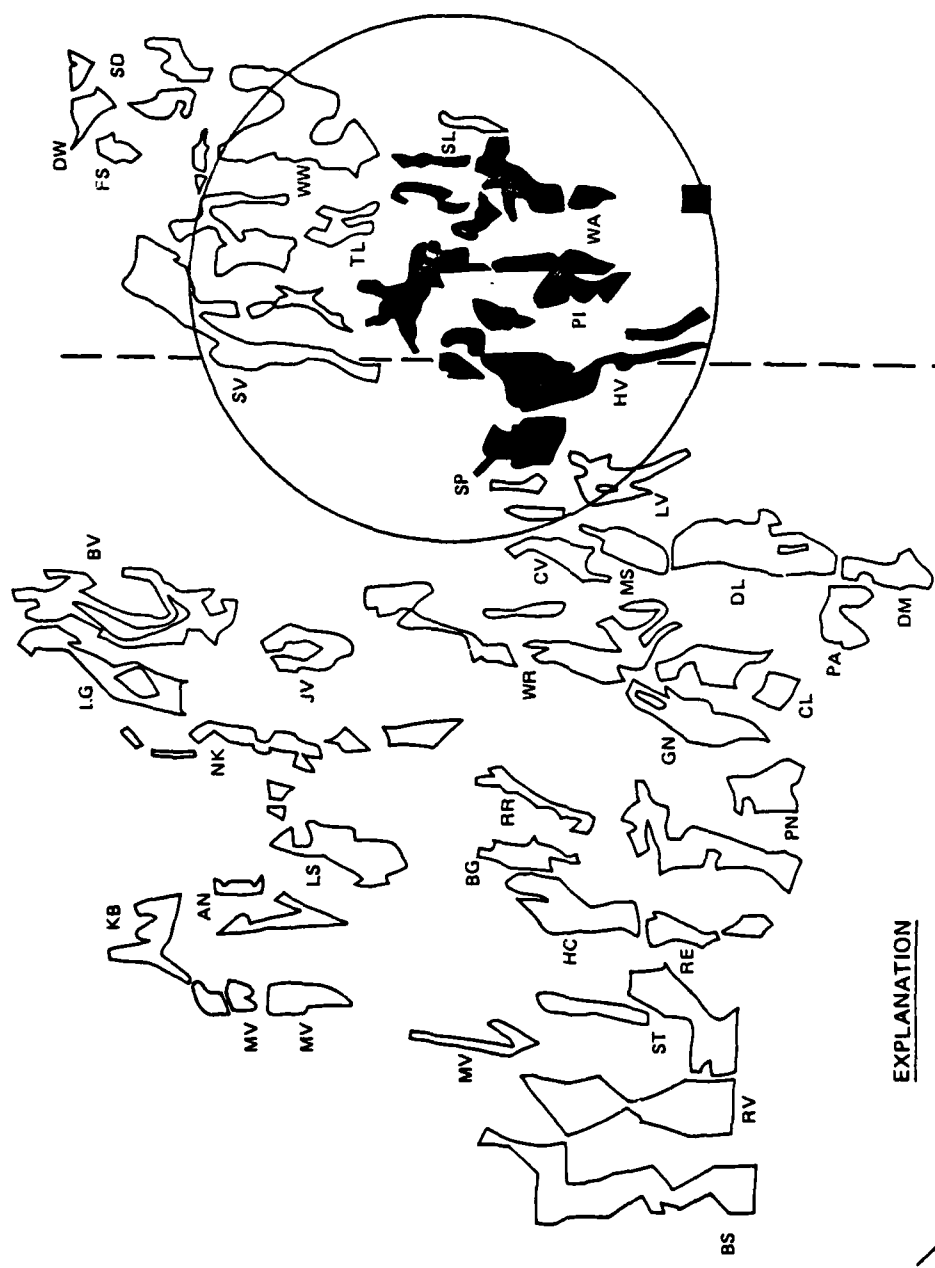
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	186
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	242	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	57	Lake	LV	
Snake	SV	390	Little Smoky	LS	
Tule	TL	198	Long	LG	
Wah Wah	WA	175	Monitor	MV	
Whirlwind	WW	21	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	68
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1337
			TOTAL VALLEYS		8
			TOTAL ASCs		1



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

19) Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV	222	Little Smoky	LS	
Tule	TL	62	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	WW	32	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	102
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL		White River	WR	
Garden	GN				
			TOTAL SHELTERS		1323
			TOTAL VALLEYS		7
			TOTAL ASCs		1



CA
NV

EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

NEVADA
UTAH
ARIZONA
DDA



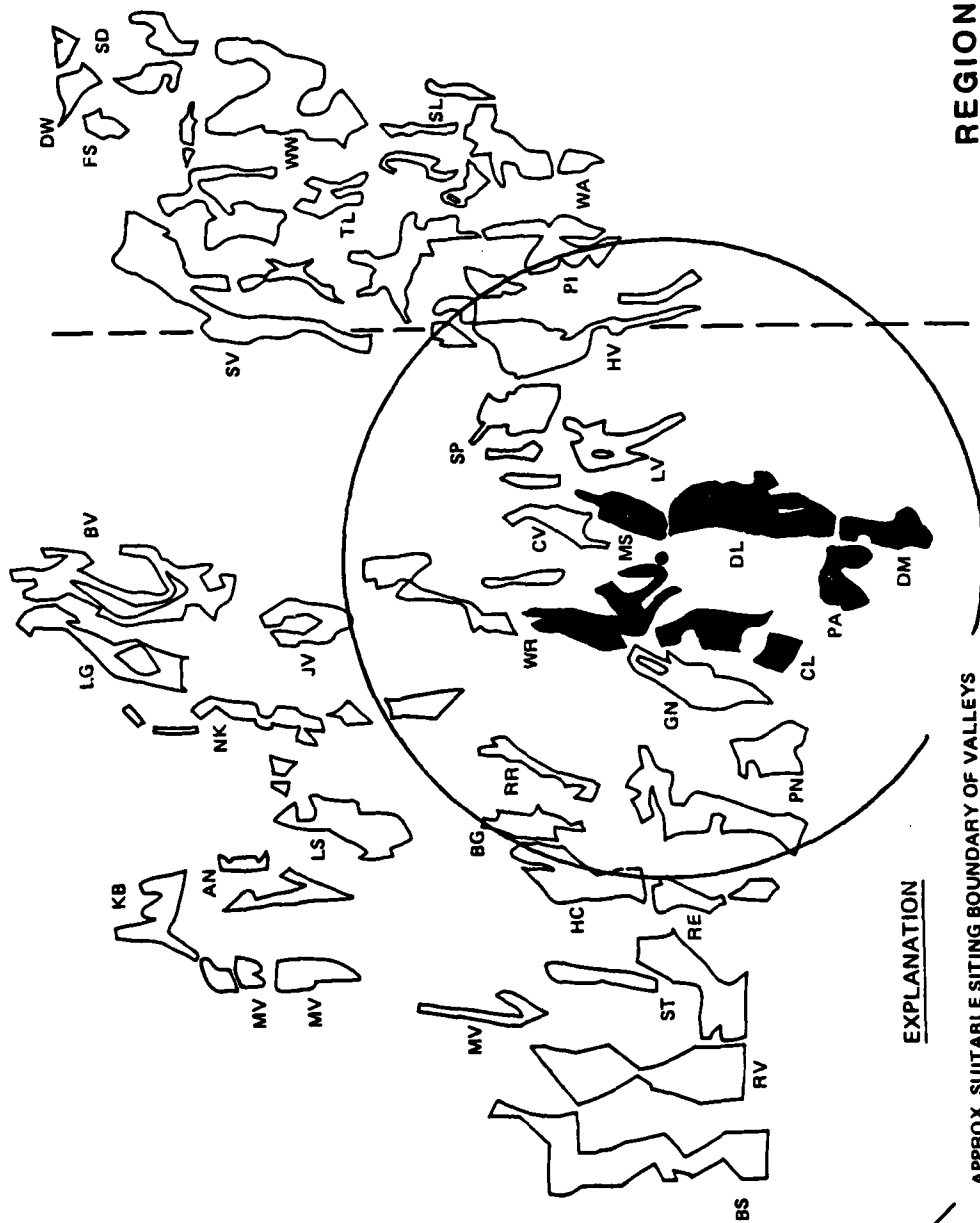
A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	81
Whirlwind	WW		Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL	219	Spring	SP	
Delamar/Pahroc	DM	170	Stone Cabin	ST	
Dry Lake	DL	284	White River	WR	265
Garden	GN	161			
			TOTAL SHELTERS		1392
			TOTAL VALLEYS		7
			TOTAL ASCs		1

B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
 20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL	328	Spring	SP	
Delamar/Pahroc	DM	255	Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		1529
			TOTAL VALLEYS		5
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



NORTH

EXPLANATION

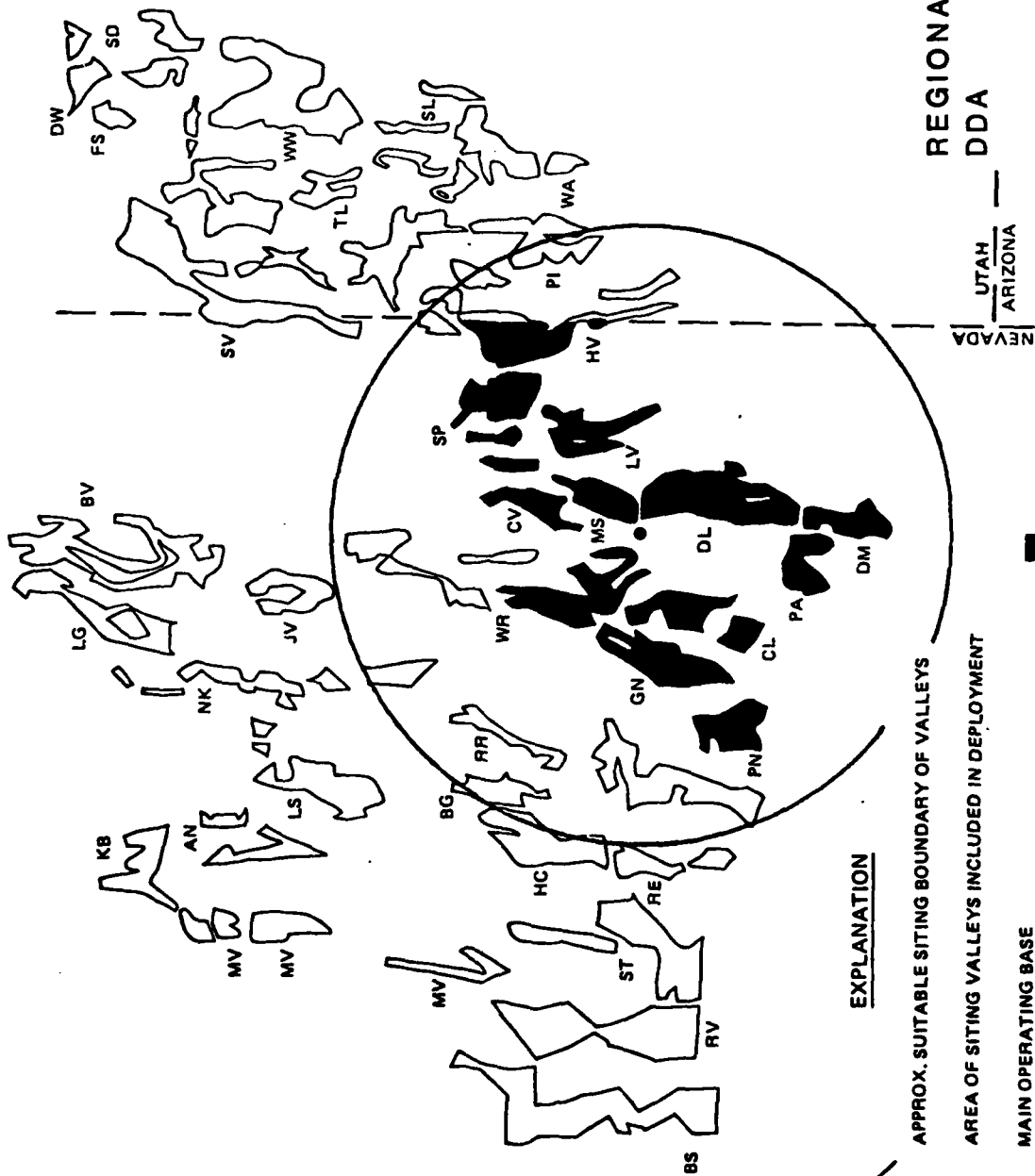
- APPROX. SITTING BOUNDARY OF VALLEYS
- AREA OF SITTING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM	138	Stone Cabin	ST	
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		1422
			TOTAL VALLEYS		11
			TOTAL ASCs		1



EXPLANATION

- APPROX. SITTING BOUNDARY OF VALLEYS
- AREA OF SITTING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

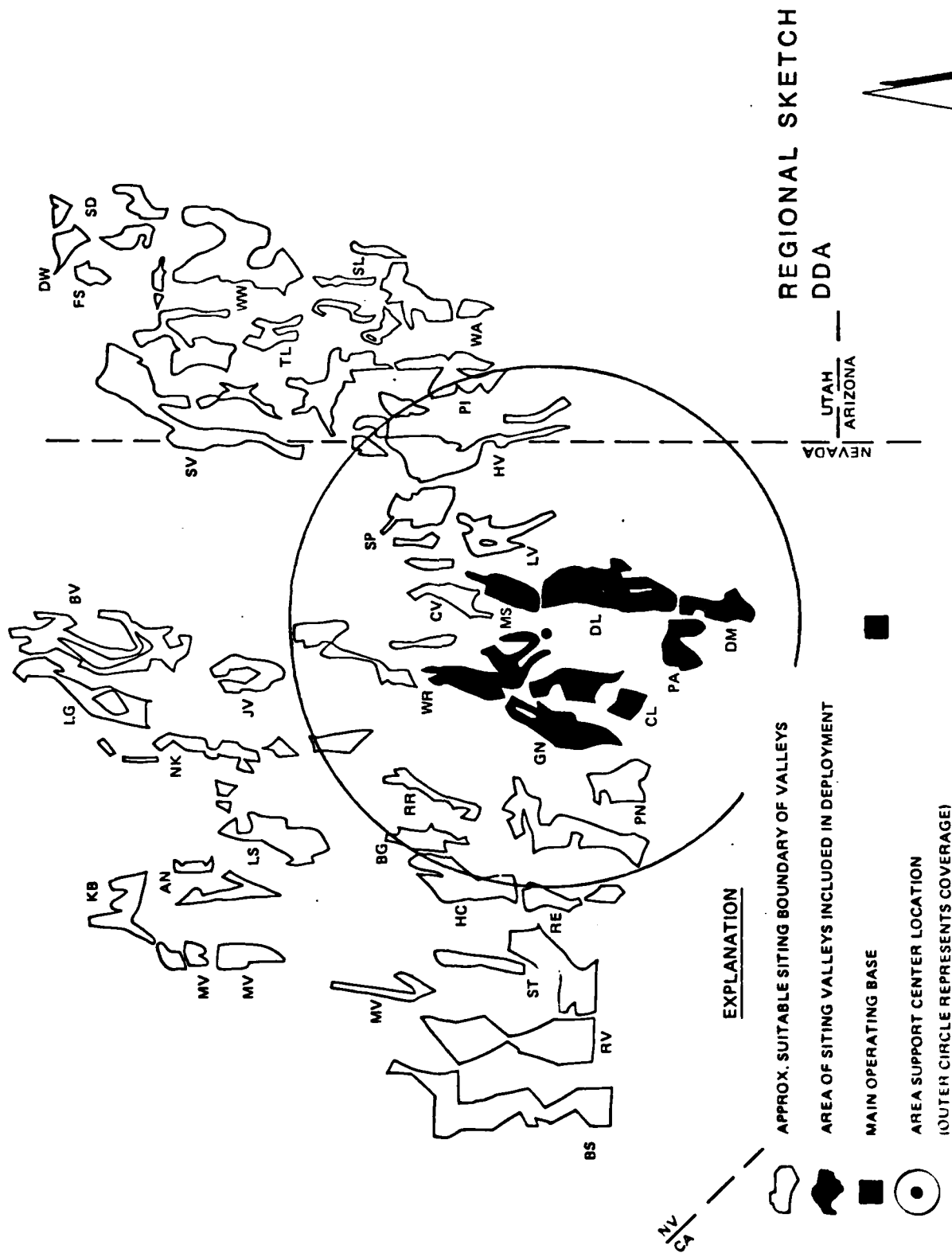


UTAH
ARIZONA

D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

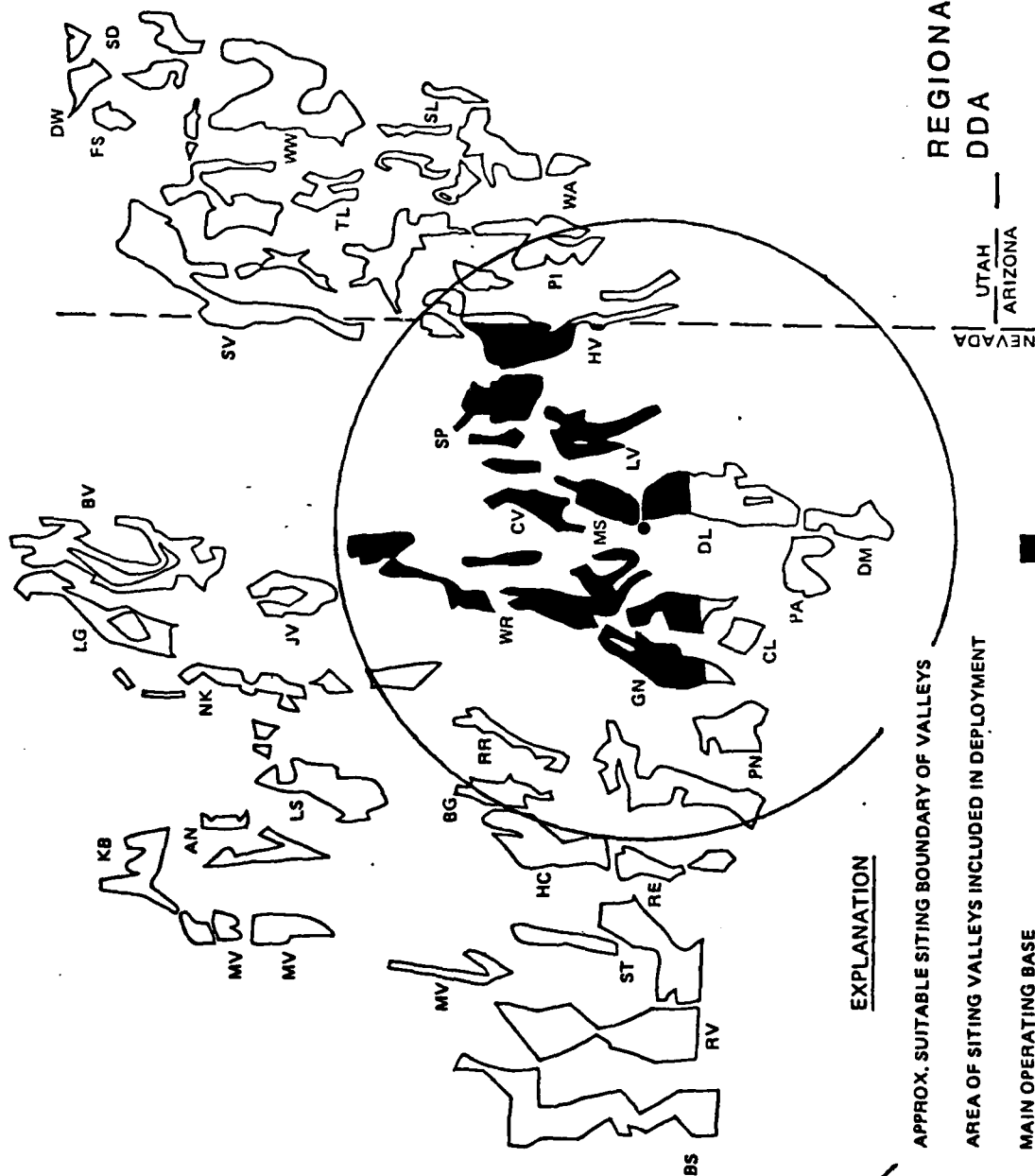
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL	302	Spring	SP	
Delamar/Pahroc	DM	207	Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		1392
			TOTAL VALLEYS		6
			TOTAL ASCs		1



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

20-16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	121
Coal	CL	115	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	95	White River	WR	398
Garden	GN	110			
			TOTAL SHELTERS		1398
			TOTAL VALLEYS		9
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



EXPLANATION

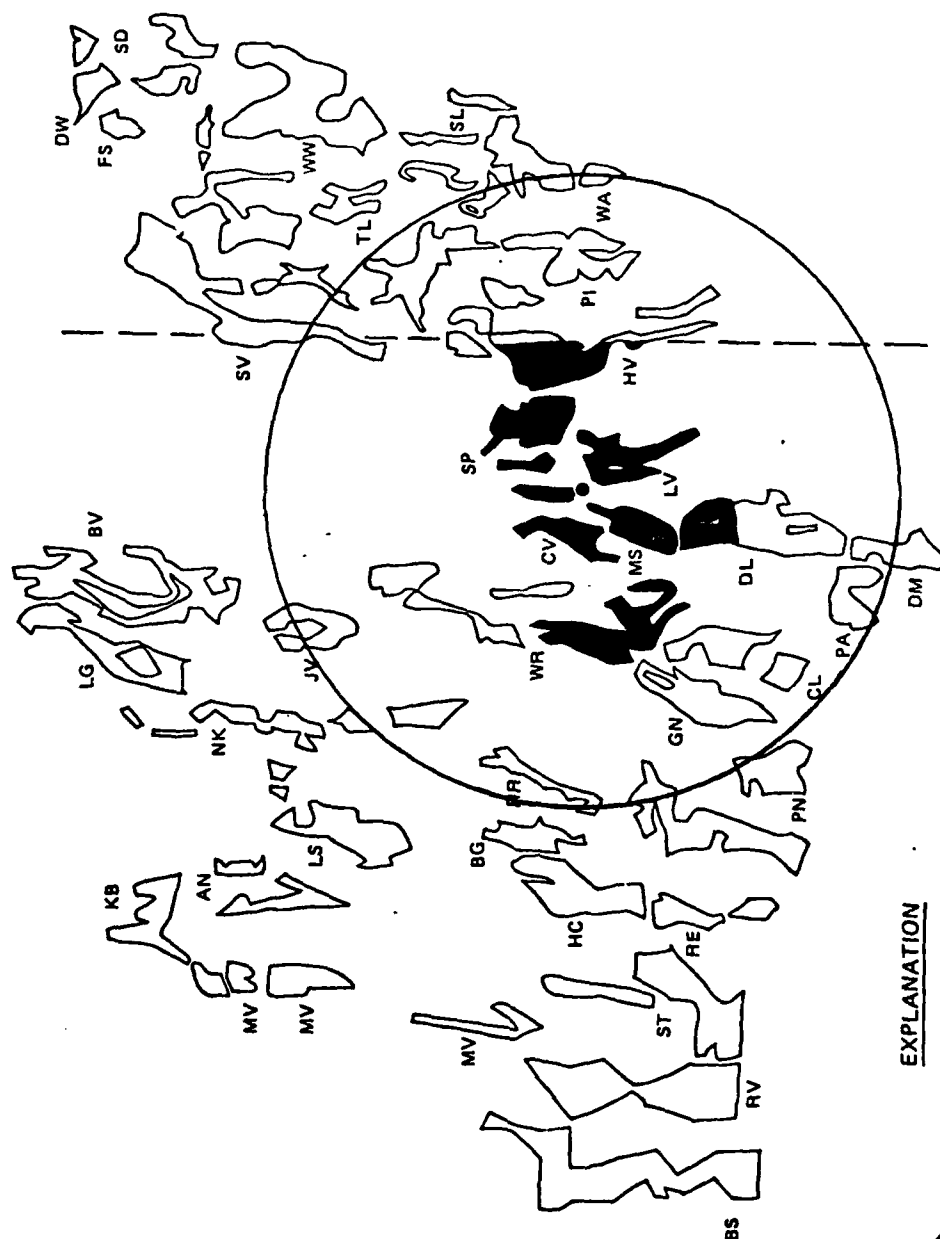
- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION (OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)

R) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

20-16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL		Spring	SP	182
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	142	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		1560
			TOTAL VALLEYS		7
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



NORTH

EXPLANATION

APPROX. SUITABLE SITING BOUNDARY OF VALLEYS

AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT

MAIN OPERATING BASE

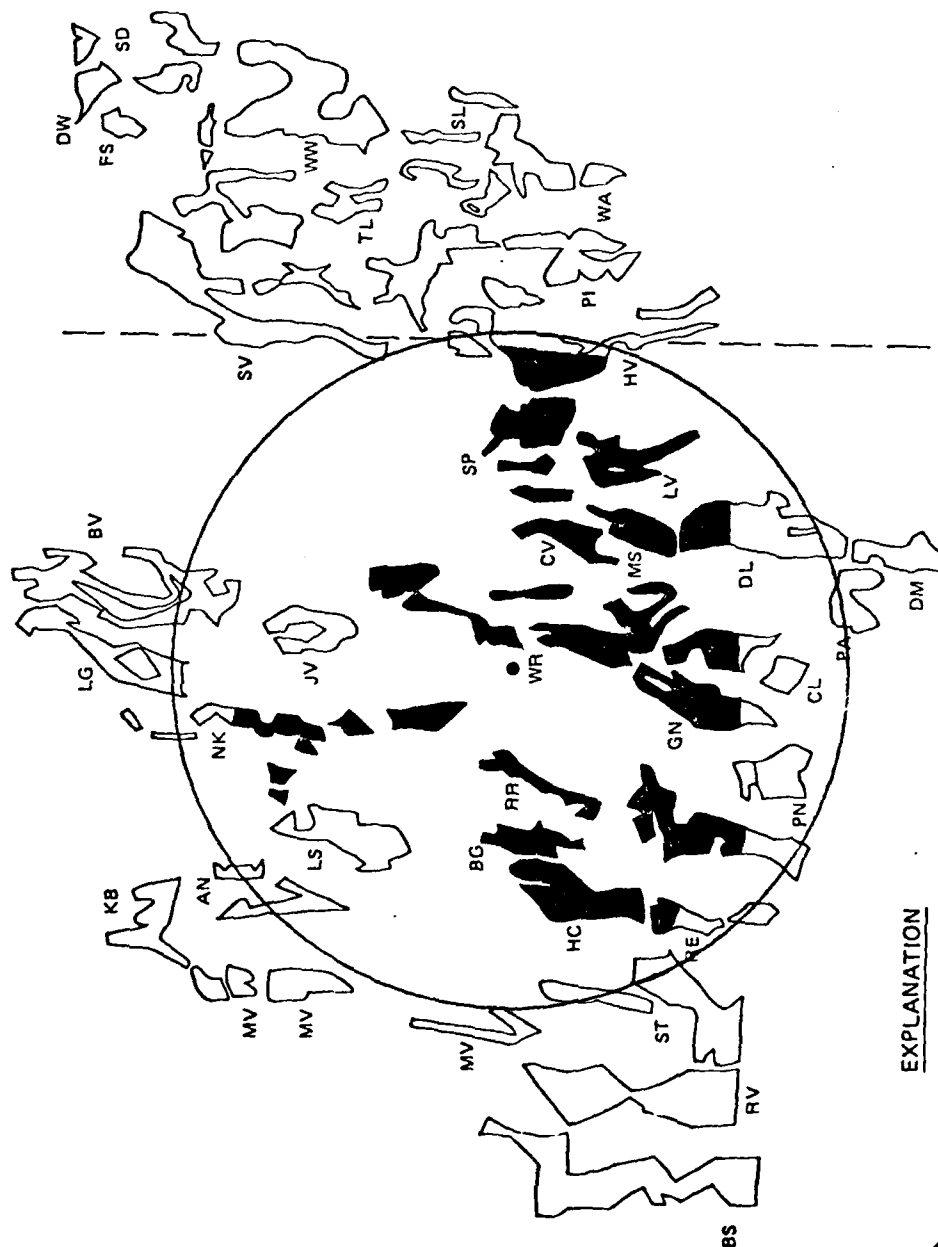
AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

20-16) About 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	115
Fish Springs Flat	FS		Hot Creek	HC	99
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	77
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS		Railroad	RR	213
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	22
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	89	White River	WR	191
Garden	GN	86			
			TOTAL SHELTERS		1380
			TOTAL VALLEYS		15
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



NORTH

EXPLANATION

APPROX. SUITABLE SITING BOUNDARY OF VALLEYS

AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT

MAIN OPERATING BASE

AREA SUPPORT CENTER LOCATION

(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)

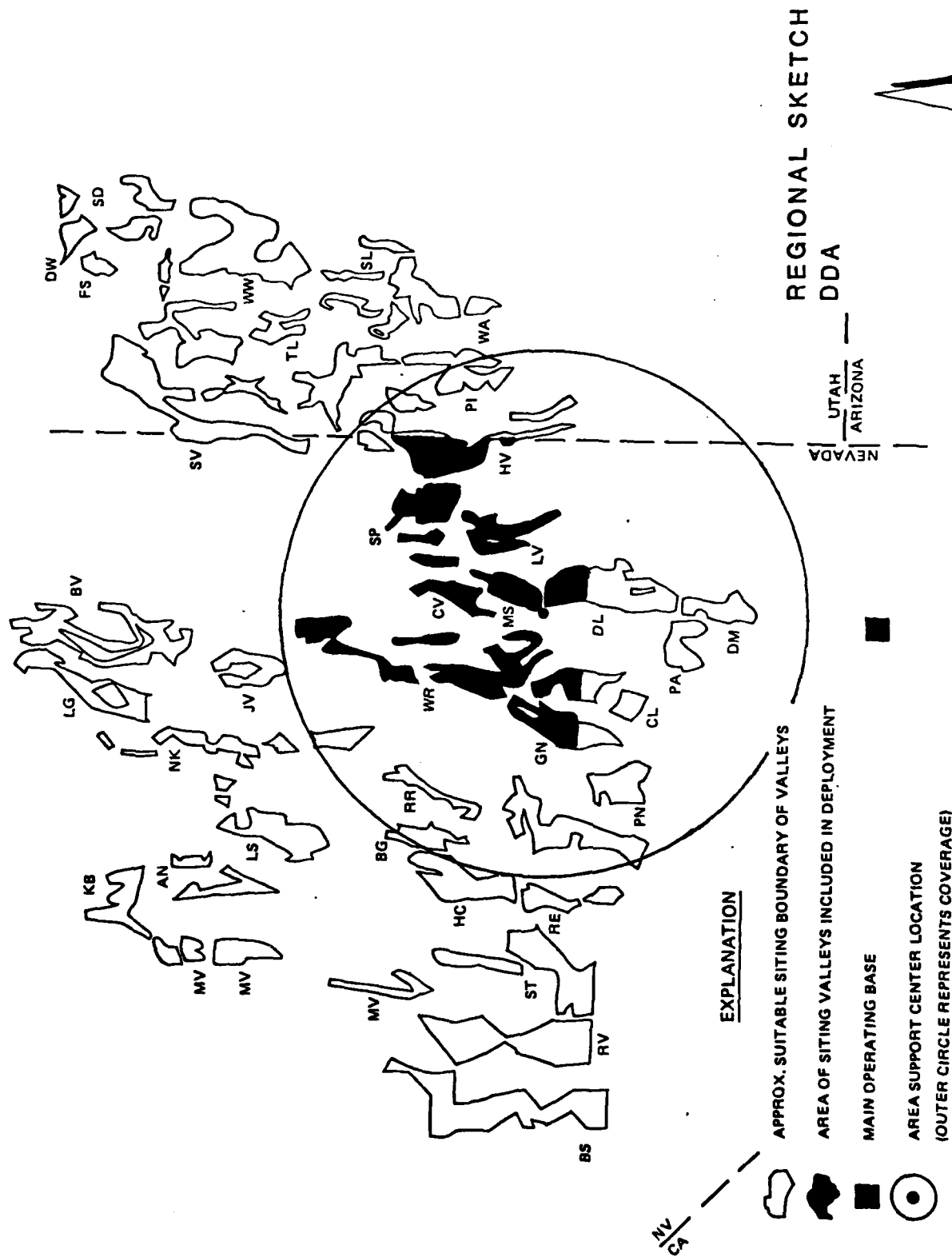


CA
NV

D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

20-16) Rest 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas,
Nevada only

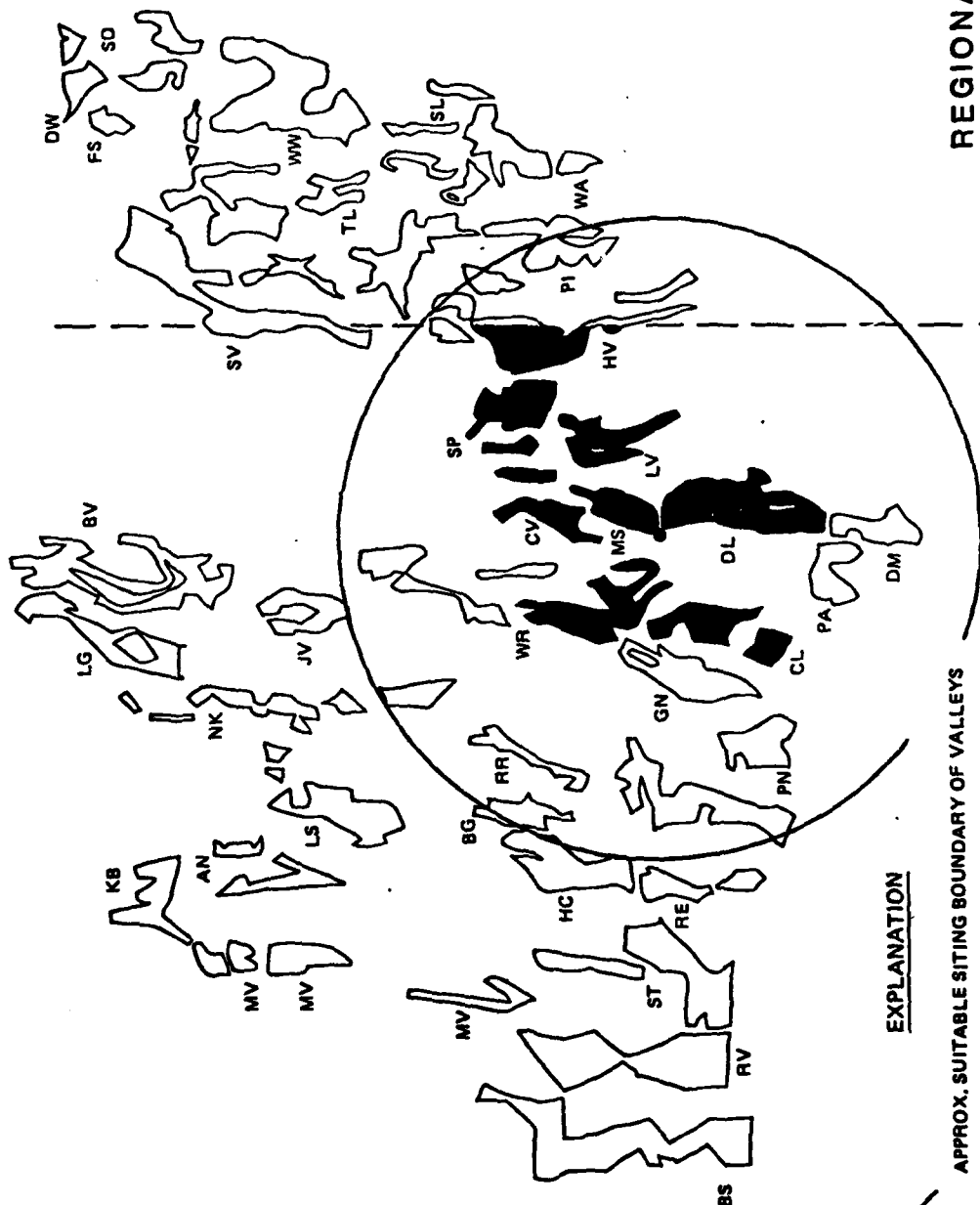
<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	174
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	102
Coal	CL	159	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	134	White River	WR	286
Garden	GN	129			
			TOTAL SHELTERS		1334
			TOTAL VALLEYS		9
			TOTAL ASCs		1



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

20-18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys,
Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Duquay	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	284	White River	WR	265
Garden	GN				
			TOTAL SHELTERS		1448
			TOTAL VALLEYS		8
			TOTAL ASCs		1



EXPLANATION

APPROX. SUITABLE SITING BOUNDARY OF VALLEYS

AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT

MAIN OPERATING BASE

AREA SUPPORT CENTER LOCATION

(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)
(ABOUT 1:2,500,000)

REGIONAL SKETCH

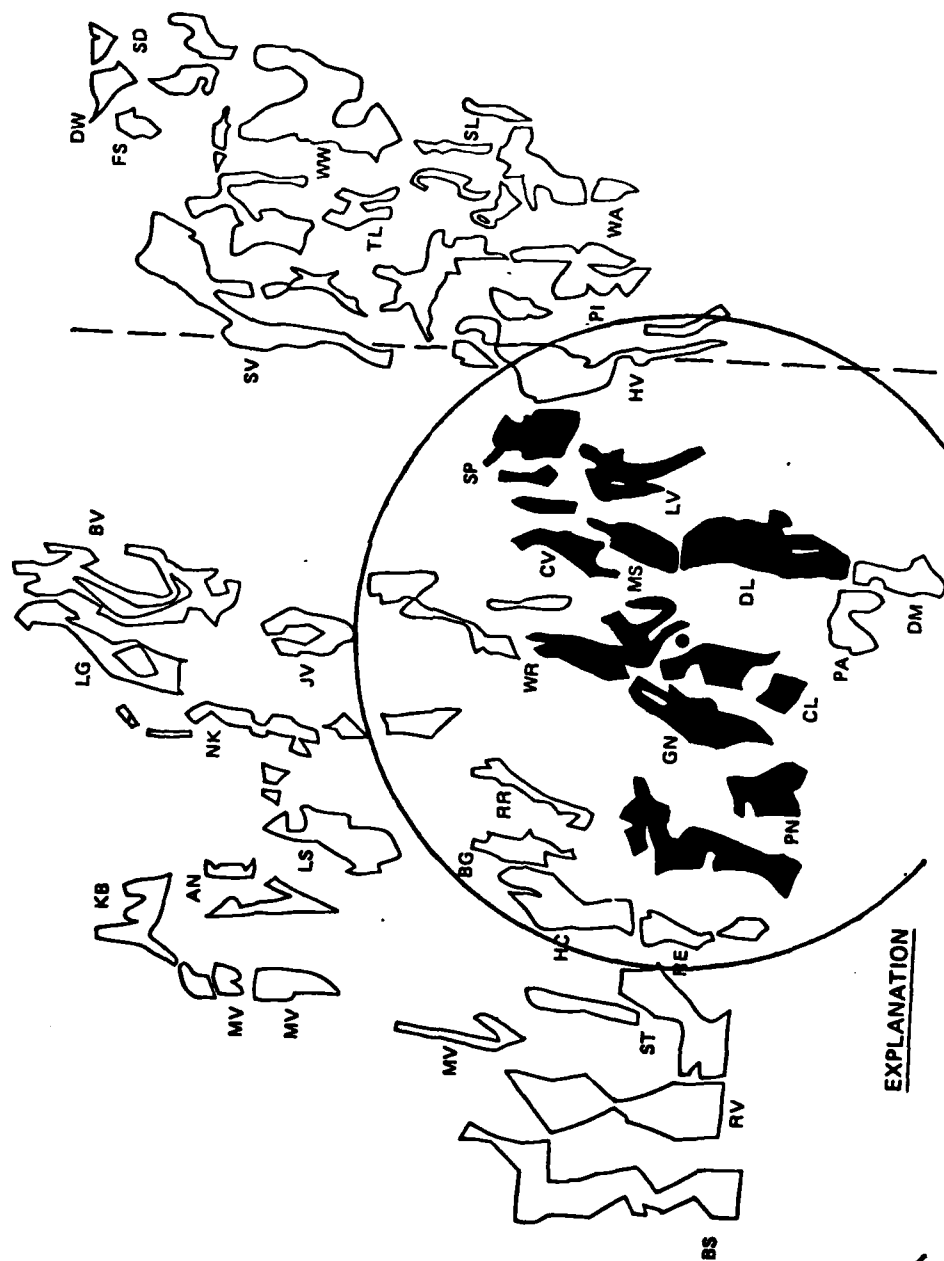
DDA

UTAH
ARIZONA
NEVADA



- B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water
- 20-18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys,
Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS.		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Peroyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CL	328	Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		1392
			TOTAL VALLEYS		5
			TOTAL ASCs		1



EXPLANATION

APPROX. SUITABLE SITING BOUNDARY OF VALLEYS

AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT

MAIN OPERATING BASE

AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

(NOT TO SCALE)

REGIONAL SKETCH

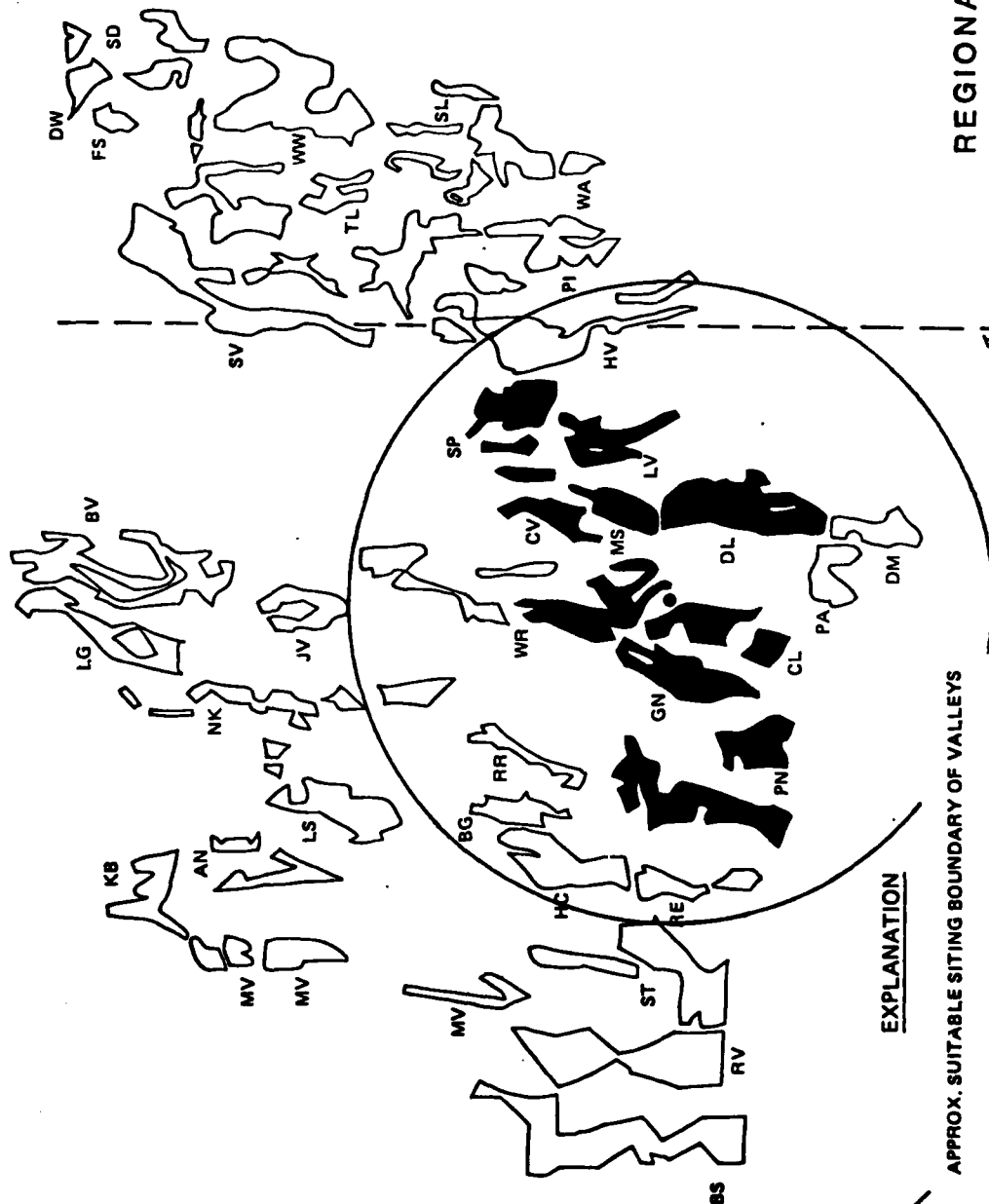
DDA

NEVADA
UTAH
ARIZONA

C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

20-18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys,
Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	164
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			TOTAL SHELTERS		1332
			TOTAL VALLEYS		10
			TOTAL ASCs		1



REGIONAL SKETCH

DDA

UTAH
ARIZONA
NEVADA



EXPLANATION

- APPROX. SUITABLE SITING BOUNDARY OF VALLEYS
- AREA OF SITING VALLEYS INCLUDED IN DEPLOYMENT
- MAIN OPERATING BASE
- AREA SUPPORT CENTER LOCATION
(OUTER CIRCLE REPRESENTS COVERAGE)

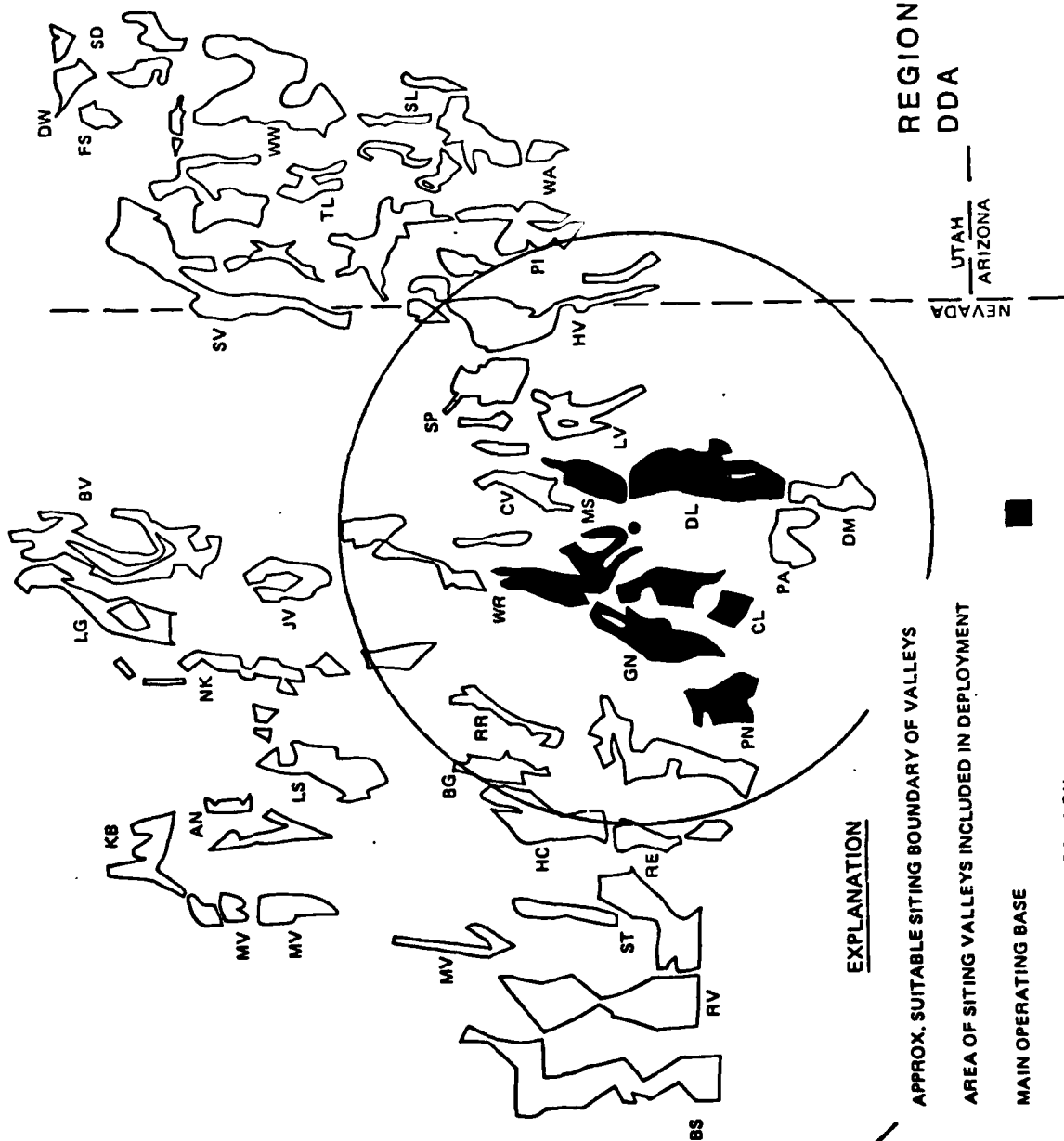


(NOT TO SCALE)
(ABOUT 1:2,500,000)

D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

20-18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys,
Nevada only

<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>	<u>VALLEY</u>	<u>ABBRE- VIATION</u>	<u>NUMBER OF SHELTERS USED</u>
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	LV	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	104
Whirlwind	WW		Muleshoe	MS	
Antelope	AN		Newark	NK	219
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	302	Reveille	RE	
Coal	CL		Spring	SP	
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		1404
			TOTAL VALLEYS		6
			TOTAL ASCS		1



APPENDIX A

GLOSSARY

APPENDIX AGLOSSARY

AFRCE-MX - Air Force Regional Civil Engineers - MX

ASC - Area Support Center

CMF - Cluster Maintenance Facility

DDA - Designated Deployment Area

Depth to Rock - Estimated depth to material with seismic velocity in excess of 7000 feet per second.

Depth to Water - Estimated depth to first encountered water.

DTN - Designated Transportation Network

MOA - Military Overflight Area

MOB - Main Operating Base

TRW - Defense and Space Systems Group of TRW Inc.

Valley Clustering - Shelters within one valley are interconnected by cluster road. Number of CMFs and barriers vary with valley size.

23:1 Clustering - Shelters are in clusters of 23 shelters. Each cluster has a CMF and barrier to the DTN.

APPENDIX B
MILITARY OVERFLIGHT AREAS (MOAs)
AND RESTRICTED AREAS

APPENDIX B

MOAs and Restricted Areas

UTAH

Military Overflight Areas

Gandy
Sevier A
Sevier B

Restricted Areas

R-6402
R-6405
R-6407

NEVADA

Military Overflight Area

Desert

Restricted Areas

R-4806
R-4807
R-4808N
R-4809

